Owner's Handbook.

UTILITY

HOLDEN

Owner's Name .....

Address .....

Town .....

State.....Postcode .....

Model Name .....

Reg. No.....Eng. No. .....

Odometer Reading .....

Date of Purchase .....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

Vehicle Identification Certificate

Selling Dealer's

Stamp & Signature .....

Holden Ltd. A.C.N. 006 893 232 (hereinafter Holden).

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this car. Also, if less than three years old, this car will qualify for Roadside Assistance, refer Chapter 9. If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook.

Part No. 92076226
August '99 (VS UTE series 111, print 8)

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We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to all Holden VS Utes. Therefore, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Reference is made throughout this Handbook to 2 different engines: 3800 (V6) and 5000 Injection (V8). If unsure of which engine is fitted to your car, please lift the bonnet and check the identification on the top of the engine.

CHANGE OF ADDRESS OR OWNERSHIP

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Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Mr, Mrs, Ms, Miss, Dr, etc.

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State Postcode

Car registration number

ISOVIN No (shown on page 8-5 of this handbook)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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CHAPTER 1

Dash board

The following page illustrates the dash board, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.

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1-14	Horn
1-14	Tilt steering
1-14	Turn signals
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LAYOUT

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P Electric antenna height adjust buttons (if fitted) 1-13
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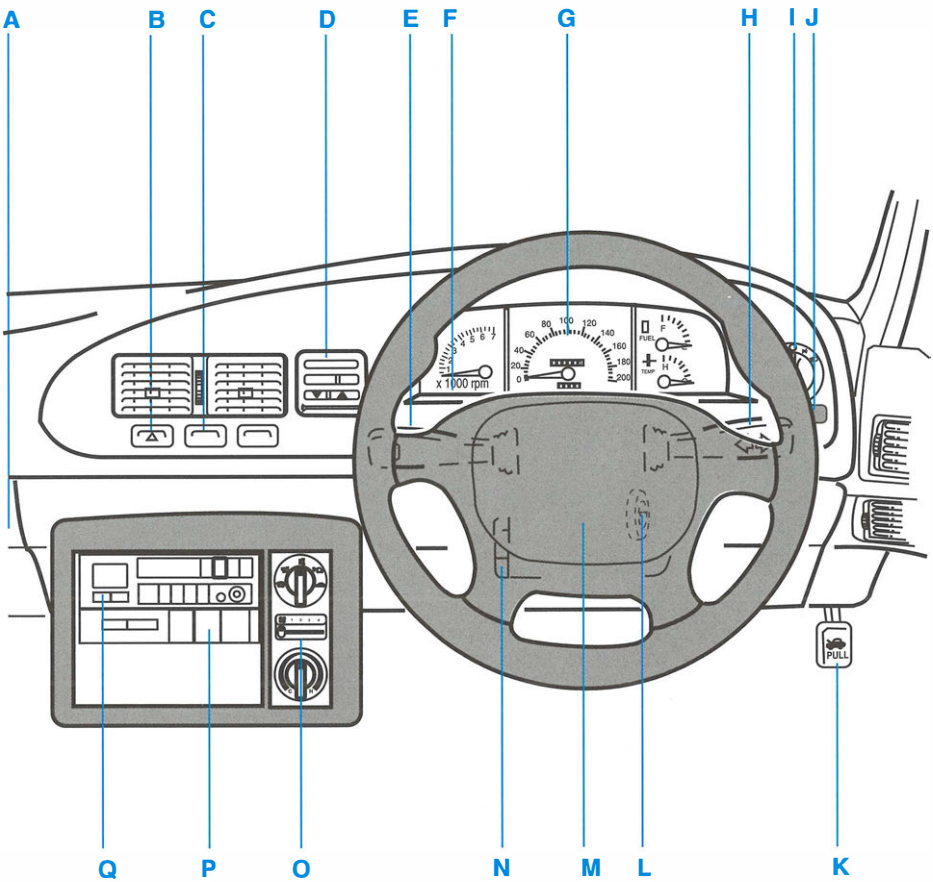
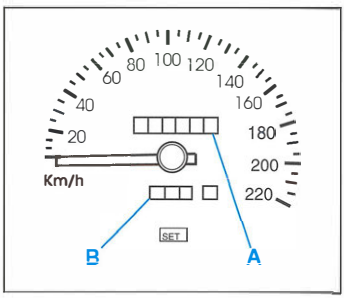

A
B
C
D
E
F
G
H
I
J
x 1000 rpm
FUEL
TEMP
PULL
Q
P
O
N
M
L
K

GAUGES

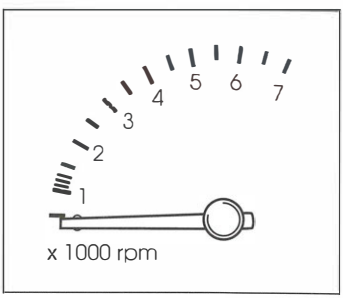
Speedometer



The speedometer shows speed in kilometres per hour.

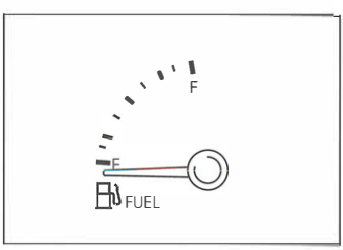
The odometer (A) records kilometres travelled since the car was built.
The tripmeter (B) records kilometres travelled on a particular trip. Push the SET knob (beneath the speedometer) to reset the tripmeter reading to zero.

Tachometer (if fitted)



The tachometer shows engine speed in revolutions per minute (r.p.m.). Operation in the RED zone may cause serious engine damage.

Fuel gauge

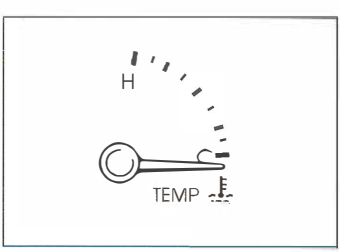


The fuel gauge shows the level of fuel in the fuel tank when the ignition is switched ON.

E = empty F = full.

Refer to Chapter 5, *"FUEL"*.

Temperature gauge



The temperature gauge indicates the engine coolant temperature when the ignition is switched ON.

Stop/start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing may cause the needle to move toward the "H". This is normal, and is not cause for concern. However, if the needle should move all the way to "H" and remain there for more than 30 seconds, you should stop the car as soon as it is safe to do so. Refer Chapter 6, for overheating instruction.

Illumination of the gauges is adjusted by moving the tab on the side of the "headlights dial", refer page 1-9.

WARNING LIGHTS

Battery!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated when driving it indicates that the generator is not charging. If the generator drive belt is intact there is a problem in the charging system and you should see your Holden Dealer.

ABS OFF (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is turned to ON.

If the symbol is illuminated when driving a malfunction of the Anti-lock Brake System is indicated. The car's brake system will still operate conventionally, only the anti-lock operation is impaired, refer Chapter 4.

Check power-train!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while driving it indicates a fault in the electronic engine management system or the automatic transmission (if the car is an automatic).

Although the car may still be driveable it is recommended you reduce load on the power train, i.e. reduce driving speed, don't tow heavy loads or heavily load the car.

You should have the problem fixed as soon as possible. Only your Holden dealer has the correct diagnostic computer equipment and training to find and fix the problem.

Oil pressure!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level. Do not run the engine with this symbol illuminated. If the level is normal, have the system checked at your nearest Holden Dealer.

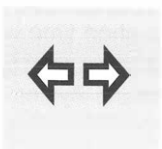
WARNING LIGHTS cont.

Brakes!

To check that the warning light is working, the symbol is displayed when the ignition is turned to start.

If the symbol is illuminated while driving it indicates a fault with the brakes. You should immediately stop on the side of the road as carefully as possible. Do not proceed until satisfied that braking is possible or that the cause of the problem has been fixed.

Turn signals



The appropriate arrow will flash when the lever on the right side of the steering column is moved up or down *and* the ignition is turned to ON or ACCESSORIES.

- Both arrows will flash when the Hazard Warning Flasher is switched on, refer page 1-11.
- The indicators will flash at a quicker rate if a globe has blown.

Park brake

When the park brake is applied and the ignition is turned to ON the symbol will be displayed - until the park brake is released.

On some models a warning will chime if you attempt to drive off without releasing the park brake. When driving, this will repeat every minute, until the park brake is released.

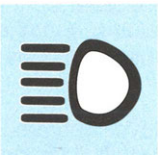
Low fuel (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is first turned ON. When driving, a warning will chime when this symbol is first displayed, indicating the petrol tank is approaching empty (approx. 8 litres).

WARNING LIGHTS cont.

High beam

This symbol is displayed when the headlight high beams are in use.



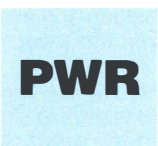
Air bag (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is first turned ON.

If the symbol is displayed while driving it indicates that the air bag may not inflate in an accident and you should see your Holden Dealer.

Power shift (with automatic transmission)

The automatic transmission PWR symbol will be displayed when the power shift button is in the out position when driving, indicating that the transmission is operating in the power mode, refer page 4-4.



Cruise control (if fitted)

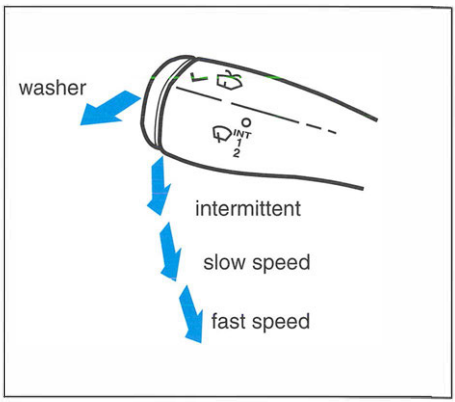
The CRS symbol will be displayed when the cruise control is activated and ready for use. Both the CRS and ON symbols will be displayed when the cruise control is maintaining car speed.

Refer page 1-20.

Seat belt (if fitted)

A seat belt warning light is displayed for approximately five seconds when the ignition is first turned to ON. The seat belt warning light is designed to remind occupants to fasten their seat belts.

WIPERS AND WASHERS



The lever on the left of the steering wheel column controls the wipers and washers, which will operate when the ignition is turned to either ON or ACCESSORIES.

Never operate the wipers on dry glass, as this will damage the rubber and scratch the glass. To obtain a spray of fluid, pull the lever towards you and hold as long as required. This will automatically turn on the wipers for a short time, if not already operating.

Push the lever down to turn on the wipers. If just held gently down the wipers will sweep 'intermittently': once every few seconds. The wipers will sweep intermittently as long as the lever is held.

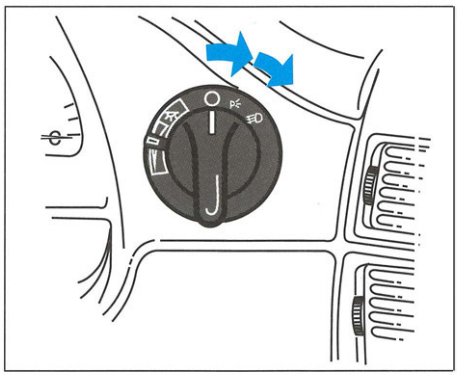
Pushing the lever further down, to the first 'stop' switches the wipers to the intermittent position and allows the hand to be removed from the lever.

Pushing the lever to the second 'stop' turns the wipers to slow speed. Pushing the lever further down, to the third stop turns the wipers to high speed.

LIGHTS

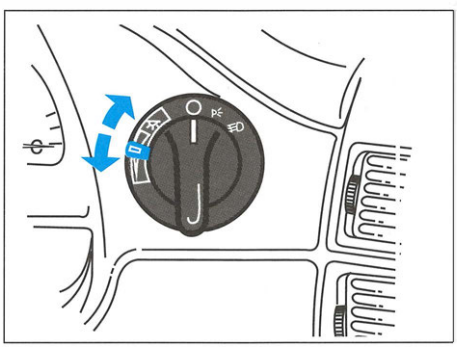
Head lights and park lights

Rotating the knob in the centre of the dial to ⊭ turns on the park, tail, rear licence and instrument panel lights.
Rotating the knob to ≡D also turns on the headlights.



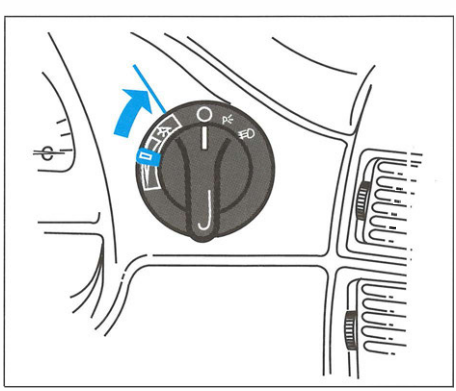
Dimmer - instrument lighting

The instruments are automatically illuminated when the parkers are switched on. The illumination can be switched to *dim* or *bright* by rocking the switch on the outside of the dial.



Interior (dome) light

To turn the light switch on, move the tab towards ⊓
The interior lights will automatically switch on when a door is opened and will switch off 30 seconds after all the doors are closed. Switching the ignition on will, however, over ride the time delay.
Leaving the interior light switched on (without the engine running) will eventually flatten the battery.



LIGHTS cont.

Automatic headlights off

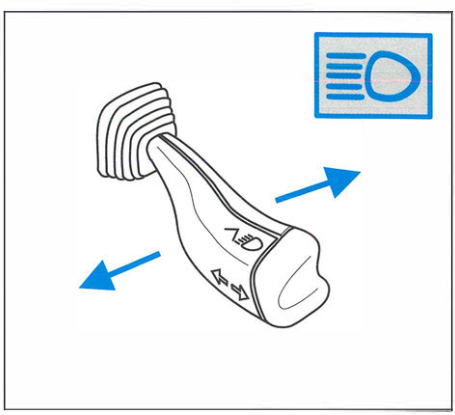
Leaving the head/park lights ON when the engine is not running will eventually flatten the battery. To prevent this, the park/head lights will temporarily switch OFF when the ignition has been switched from ON to OFF and the driver's door is opened..... the car senses that the driver has forgotten to switch off the lights. The lights will stay OFF until the ignition is again switched ON.

If you wish to have the lights ON when leaving the car, wait until they have been automatically switched OFF, then turn the light switch first to OFF, then to PARK or HEADLIGHTS.

High/low beam

High/low beam is controlled by the lever on the right side of the steering wheel column. With the headlights on, push the lever away from you, until you feel a click, then release. The headlights will change from low to high beam. When the high beams are in use, a blue symbol on the instrument panel will be displayed.

It is also possible to flash the high beams for signalling purposes (even if the headlights and/or ignition are switched off) by pulling the lever towards you; the lights will remain in high-beam as long as the lever is held.

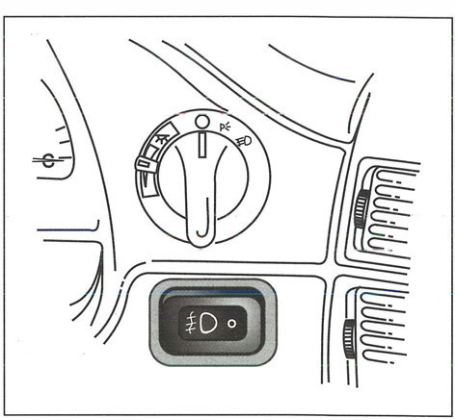


Fog lights (if fitted)

Push the switch to turn the fog lights off or on when the light switch is turned to parkers or headlights. The light in the switch will glow when the fog lights are working.

Fog lights are designed to provide a different illumination of the road to the usual headlight beam. Depending on the density of the fog, different combination of fog/high beam/low beam will improve vision. For-instance, in very heavy fog, vision may be improved by turning the headlights off, and just having the parkers and fog lights on.

Driving speed should be reduced in fog.



HAZARD, SECURITY LIGHT, PHONE

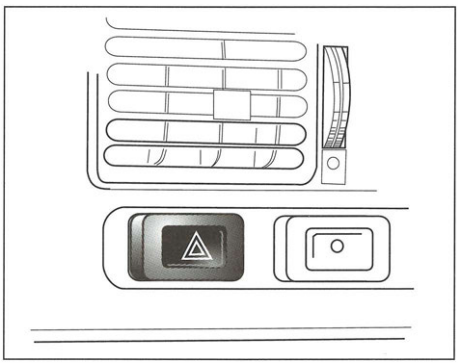
Hazard warning flasher

Press the switch to turn the hazard warning flasher on and off. The hazard warning flasher works regardless of the ignition position.

When turned on, all turn signals will continuously flash.

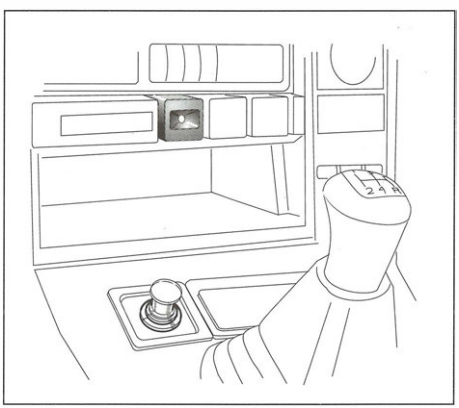
Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night.

Use of the hazard warning flashers while the car is moving is illegal in some States/ Countries.



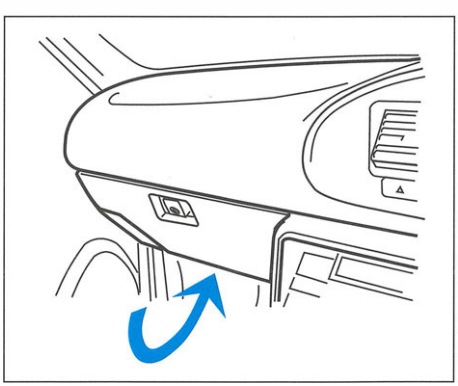
Security light

The security light will flash when the car's security system is armed, refer chapter 2 regarding "security".



Phone

A power connection for fitting a telephone is provided for all models, taped under the left side of the dash.



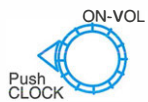
RADIO, CLOCK

Radio, cassette and clock (if fitted)

Information on the operation of the radio, cassette and CD (if fitted) is provided in the glovebox.

Clock - to adjust time

- Switch the ignition to ACCESSORIES or ON position.
- Hold down the time/frequency button. That is the button that switches the display between time and radio frequency. The button will look like one of the three shown below, depending on your model car.



- While the time/frequency button is held down and *time* is shown on the display, press the radio tune button. One side of the tune button increases the minutes, the other side increase the hours. Depending on your model car the tune button will look like one of the three shown below.

Important cassette care note

After repeated playing, residue from the tape surface and dust from surroundings builds up on the tape head and tape handling surfaces. This is first noticed as lack of treble and a muffled sound.

To assure good quality sound, reduce dropout and have trouble free operation, a good quality 'Wet type' cassette head cleaning tape should be used every month or two, depending on the amount of use.

RADIO CONTROLS cont.

Radio P.I.N. (Personal Identification Number)

Your PIN must be entered if the battery is disconnected. The PIN is shown on the security card in the glovebox. To enter:

- turn ignition to accessories and turn radio on ("1" will appear).
- press the radio buttons in your P.I.N. order
- the radio will shortly begin to play.

If an incorrect PIN was entered the number "2" will appear on the display. Following 3 incorrect PINs the display will show " - - - ", and the radio must remain connected to power for approx. 1 hour before the correct P.I.N. can be entered.

Therefore, if your vehicle repair requires battery disconnection you may wish to provide the servicing dealer with your P.I.N.

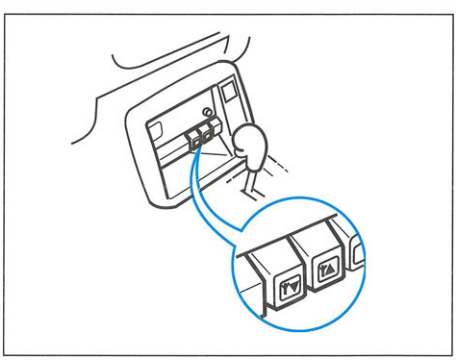
Always keep the P.I.N. in a safe but accessible place (not in your car), as this safety feature is provided as a theft deterrent. If the P.I.N. number is lost, contact your Holden Dealer. He will require proof of ownership and the Vehicle Identification Number, shown on the inside front cover of this handbook. There may be a nominal charge for this service.

Electric antenna (if fitted)

The electric antenna will not operate unless the radio unit is switched on. When the radio is turned off or the ignition is turned off, the electric antenna will (after a short delay) automatically retract. When the radio is switched on and the ignition is turned to ON or ACCESSORIES the antenna will automatically extend.

In addition, it can be raised or lowered by pressing the appropriate switch.

Important: The best radio reception is gained when the antenna is fully extended.



Manual antenna (if fitted)

Pull up or push down as required. To guard against breakage, the antenna can be pushed fully down to the 'lock' position. To re-extend, insert the special key (provided in the glovebox) into the slots at the base of the antenna and pull up the top of the antenna, which can then be extended for maximum distance reception.

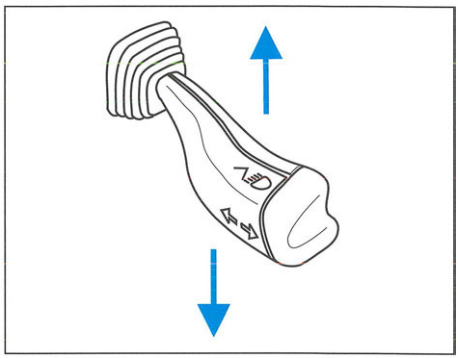
TURN SIGNALS, HORN, TILT STEERING

Turn signals

The turn signals lever is on the right side of the steering wheel column. Push the lever up to signal a left turn, down to signal a right turn.

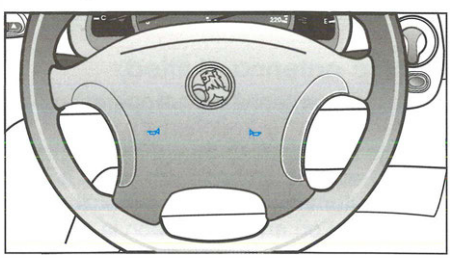
In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

A green arrow on the instrument panel will flash when the lights are in operation.



Horn

The horn is activated by pressing the centre of the steering wheel.



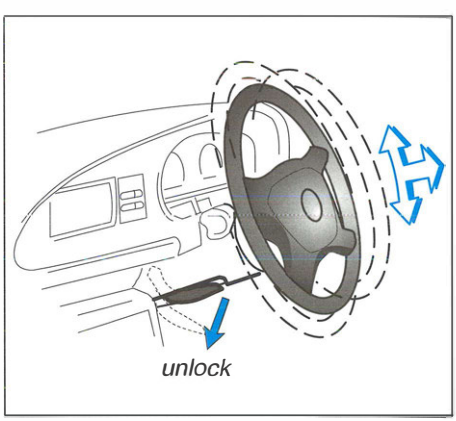
Tilt/telescopic steering (if fitted)

Move the lock lever on the left side of the steering column down.

Grasp the steering wheel and move as required. It can be moved up or down, pulled towards you or pushed away from you.

When in position, move the lock lever up. "Jiggle" the steering wheel to ensure it has locked securely before driving.

CAUTION: As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.

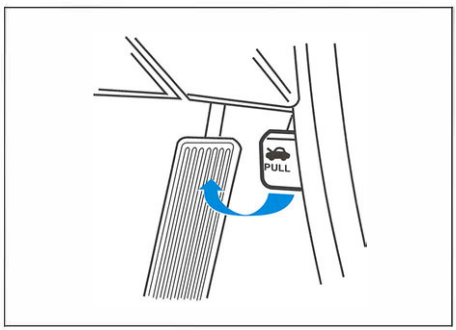


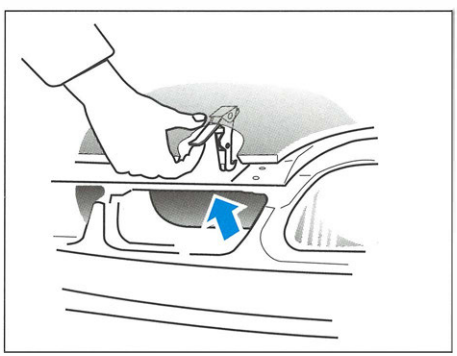
BONNET

From inside the car, pull the lever shown towards you.

This allows the bonnet to release but is prevented from opening by the safety catch. To open completely, reach in under the centre of the bonnet and move safety catch upwards. Hold in this position and raise the bonnet.

After you have partially lifted the bonnet, gas struts will automatically take over, to lift and hold the bonnet in the fully open position. For closing, simply pull the bonnet down and push firmly back into place.



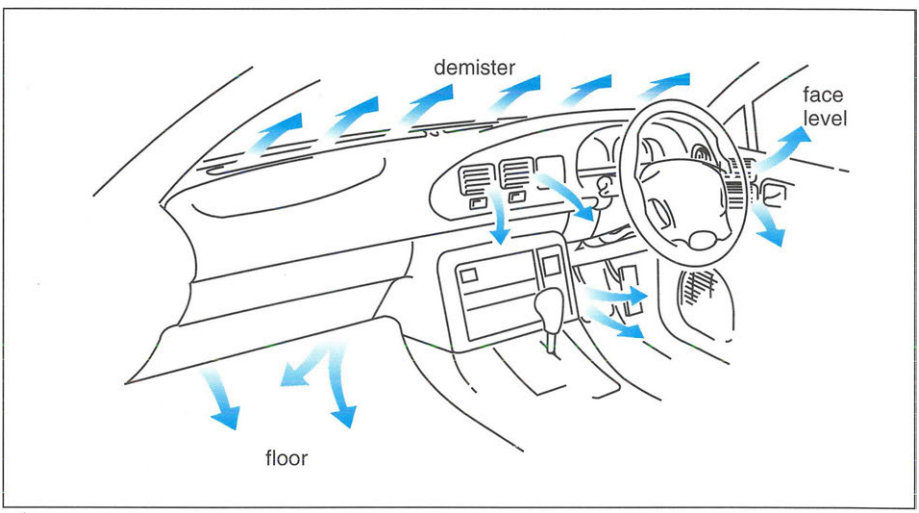


VENTILATING SYSTEM

The car features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Outside air (except when re-circulate is selected) is drawn into the car through the opening between the bonnet and the windscreen. Do not allow this opening to become clogged with debris, such as leaves or snow. Any leaves which have entered this area should be removed each time you wash your car (recommended weekly).

Vents

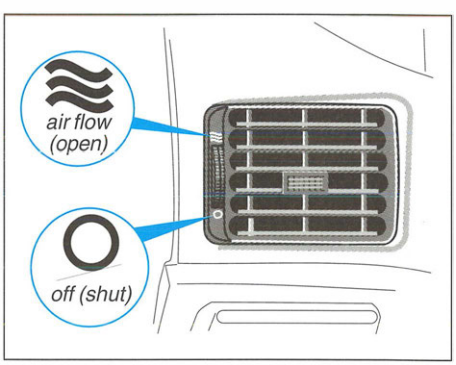
The air may be directed to different types of vents - floor, windscreen demist, door demist door face and dash face.



The floor and demister vents are fixed, as these direct air to the windscreen, feet and side windows in the best possible way.

The face vents have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

These vents have shut off doors which can also be used to adjust the air volume to suit individual comfort.



HEATER AND AIR COND. (if fitted)

Mode dial

DEMIST. Air is delivered to the demist vents. *A small amount of air is directed to the demist vents in the front doors and under the windscreen in all positions.*

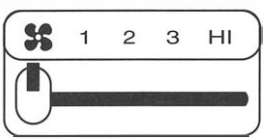
FLOOR. Air is directed to the floor vents.

BI-LEVEL. Cooler air is delivered from the face and demister vents and warmer air from the floor vents when the temperature lever is moved away from extreme cold or extreme hot. This position can be used for most winter driving.

FACE. Air is delivered from the face level vents (front door and centre dash) and the rear seat vents (if fitted).

RE-CIRCULATE. No outside air is admitted. Interior air is re-circulated and directed back through the face level vents. Refer operating notes on following page. **Re-circulate re uses interior air and is therefore not recommended for long periods of time.**

Fan switch



The fan switch provides speed control of the blower fan in all Mode dial positions. Note that if your car has a front, bench seat then the fan switch will be in the vertical position.

Temperature dial

The temperature dial adjusts the temperature of the air entering the passenger compartment in all Mode dial positions.

Air conditioning (if fitted)

- The air conditioning is turned on when the light in the switch is illuminated. Re-press the button to switch OFF.
- The fan must be set to 1 or above for the air conditioning to work.
- When the air conditioner is switched on and the Mode dial is turned to either Bi-level or Face, air is also delivered from the rear seat vents.
- The air conditioner operates more effectively when all the windows are closed.

HEATER AND AIR COND. notes

Unsealed roads

When following another car on dusty roads, or to prevent exhaust fumes or odours entering your car, select the re-circulate position on the mode dial and make sure windows are closed.

When driving on un-sealed roads but where the dust is not airborne, use the face or bi-level setting of the Mode dial (with the windows closed) and the fan preferably on a high speed so that positive air pressure in the car will prevent any dust entry.

Air conditioning (if fitted)

Hot weather For a "quick cool down" when first entering the car on a hot day, switch on the air conditioner, turn the Mode dial to re-circulate, turn the temperature control dial to full cold and turn the fan to a high speed. Also, open the windows to allow the hot air to escape. After a minute or two, close the windows, as the air conditioning works more effectively with the windows up.

It is recommended selecting "face" mode and "outside air" when the interior cools down (10 to 20 minutes) to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when re-circulate is selected. This can be used in slow city traffic or when the car is stationary in very hot weather. Occasionally select face or bi-level to allow outside air to enter the car.

Performance/fuel economy The air conditioner uses power from the car's engine. Therefore you will notice a small decrease in engine power, and a slight increase in fuel consumption when the air conditioner is in use. The air conditioner will automatically switch off when you fully depress the accelerator pedal, to ensure that maximum engine power is available for overtaking etc.

Cold weather If the side windows or windscreen fog up on a cold day, switch on the air conditioner, turn the fan switch to a high speed, turn the Mode dial to demist or bi-level and select a warm setting with the temperature control dial. This will circulate warm, dehumidified air throughout the car, defogging the windows. Note that the air conditioner not only reduces temperature but also reduces humidity and dust.

Automatic transmission If your car is stopped for long periods in hot weather with the engine running and the air conditioner operating, select N or P.

Cigarette smoke If occupants are smoking, it is recommended that the "re-circulate" position NOT be used.

Important Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes even in Winter to lubricate seals.

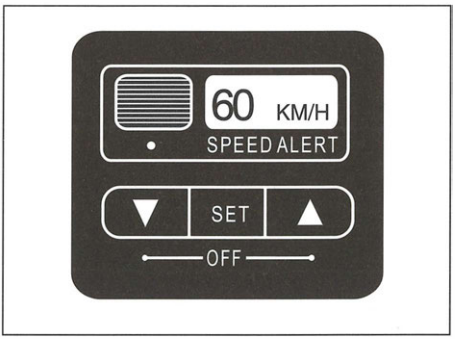
Notes Occasionally a slight hissing sound may be heard for a short time when the air conditioner switches off and pressure in the system equalises. This is normal.

When driving at high speeds the air conditioning compressor may switch off so that full engine power is available.

The system is protected by switches that guard against abnormal loads and loss of refrigerant. The compressor may switch off temporarily. Have the system checked by a Holden Dealer if this occurs.

SPEED ALERT (if fitted)

Speed alert will warn you when you have exceeded a preselected speed. For example, you can set it to warn you when your speed has exceeded 60 km/h in a 60km/h zone.



Off and on

- Speed alert is *off* when "- -" is displayed; speed alert is *on* when a speed is displayed.
- To turn *on*, press any of the buttons.
- To turn *off*, press the ▲ and ▼ buttons simultaneously.
- Speed alert works between 20 km/h and 195 km/h.

Adjusting warning speed

- Speed alert is adjustable in units of 5 km/h.
- ▲ and ▼ buttons can be either held down to scroll quickly, or tapped to adjust speed in steps.
- If SET is pressed the warning speed is changed to the current car speed, provided speed is between 20 and 195 km/h.

Four commonly used warning speeds

Four preset warning speeds are provided: 60, 80, 100 and 110 km/h. Press SET and ▲ for the next highest preset, or SET and ▼ for the next lowest preset.

Adjusting commonly used speeds

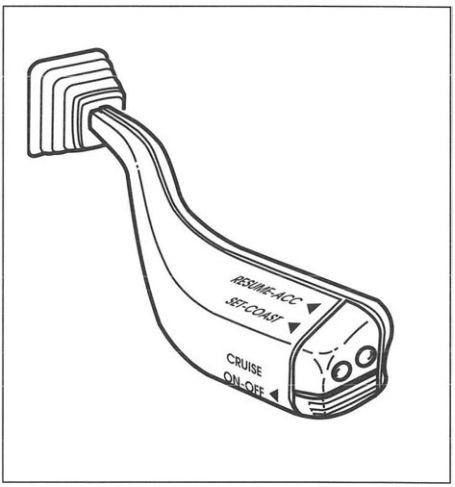
The four commonly used speeds can each be adjusted:

- Press SET while turning the ignition on. The display will show the 'preset' number. Then, after 2 seconds, the display will show the assigned speed
  e.g. P1, then 60 km/h.
- Press ▲ or ▼ to adjust the speed.
- When desired warning speed is displayed, press SET button to change to the next preset and adjust in the same way.

  Note: Pressing SET locks the speed into memory and also tabs between presets.
- Press ▲ and ▼ simultaneously when you have finished adjusting all the speeds.

There is a manufacturing tolerance of 5 km/h between the speed alert warning and the speedometer gauge reading.

CRUISE CONTROL (if fitted)



The cruise control maintains your car's speed without you having your foot on the accelerator pedal.

The cruise control lever is on the right side of the steering column. The lever has two switches.

The ON/OFF switch is at the *bottom* of the lever and is activated by pushing in towards the direction of the steering column.

The top part of the switch is used to adjust speed. It is a two part switch which can be *rocked* either towards or away from you.

Note the raised dimple when the adjustment switch is rocked away from you. This is the RESUME-ACC position, which is used to increase speed and to resume last set speed.

Note the depression in the adjustment switch when it is rocked towards you. This is the SET-COAST position, which is used to decrease speed and to set initial speed.

TO SET INITIAL SPEED:

1) Ensure the CRS symbol on the instrument panel is showing (if necessary, press the ON/OFF switch). This indicates that the cruise control is ready for use.
2) Press the accelerator pedal until travelling at your desired speed, (above 40 km/h) and then momentarily rock the adjustment switch towards you, to the SET-COAST position. You may now release both the accelerator pedal and the switch, as the cruise control is now maintaining speed.
3) Note the ON symbol next to the CRS symbol on the instrument panel is now showing.

TO ADJUST YOUR SET SPEED you may either:

- Rock the adjustment switch towards you to the SET-COAST position until the car coasts down to the desired speed, then release.

  or

- Rock the adjustment switch away from you to the RESUME-ACC position until the car accelerates up to the desired speed, then release.

Minor changes in speed (1.6 km/h) can be achieved by *momentarily* rocking the adjustment switch; either away from you or towards you. When slowing speed, remember that the cruise control is not designed to operate under 40 km/h.

CRUISE CONTROL (if fitted)

TO RELEASE THE CRUISE CONTROL you may either:

Press the ON/OFF switch. This will deactivate the whole system and wipe clear any speed memory.

or

Press the brake pedal. This will deactivate the cruise control (the ON symbol will turn off) but retain the speed in its memory. To regain the memory speed you have only to momentarily rock the adjustment switch to the RESUME-ACC position, provided you are travelling over 40 km/h. Holding in the RESUME-ACC position for longer than one second will clear the memory and set the speed to the current vehicle speed.

WARNING

Do not use the cruise control when road or driving conditions could require varying speeds. A constant speed may not be practical in heavy or varying traffic, or on winding, slippery or rough roads.

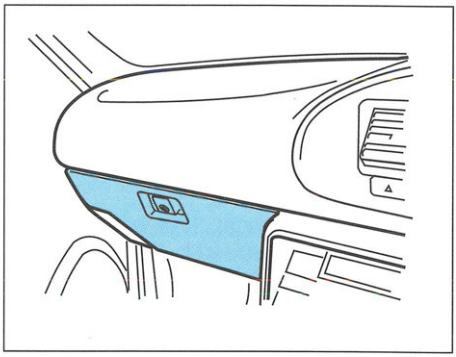
Remember that when both the 'CRS' and the 'ON' symbols are showing the cruise control is maintaining your speed. Taking your foot off the accelerator pedal will not reduce speed. To deactivate the cruise control you must either press the brake pedal or push the ON/OFF button.

The cruise control will not apply the car's brakes. Therefore the car may gain speed when going down steep hills.

When climbing steep hills (particularly when towing) it is possible for the car to lose speed. You may need to switch off the cruise control and instead use the accelerator pedal.

GLOVEBOX

Glovebox



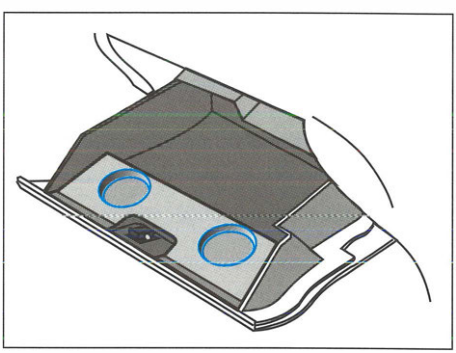
A glovebox is provided on the passenger side of the instrument panel.

A specific key (metal head) is provided solely to lock/unlock the glovebox. For security, the master key is designed not to operate the glovebox lock. Refer page 2-2 for more information on keys.

To lock, insert the glovebox key, turn clockwise and then withdraw. To unlock, insert the glovebox key and rotate anti-clockwise.

To open, squeeze the two slides of the catch together and pull towards you. To close, push lid firmly back into place.

Cupholder



Cupholders are provided inside the glovebox lid.

Notes

CHAPTER 2

Locks

Page

2-2 Keys
2-4 Door locks
2-6 Ignition lock
2-7 Tailgate lock

KEYS

Manual antenna key

(for cars without electric antennas)

To guard against breakage, the manual antenna can be pushed fully down. To extend the antenna again, insert the antenna key in the antenna slots and pull the antenna up.

Manual antenna key

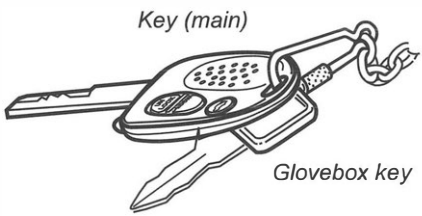
Glovebox only key

The glovebox key locks and unlocks the glovebox. This key can usually be kept in the unlocked glovebox. Then, when leaving your car and master key with a car park attendant you can lock valuables in the glovebox, and take the glovebox key with you.

Key (main)

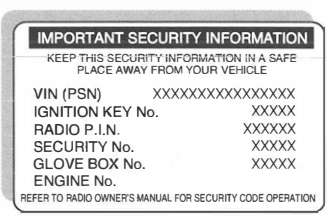
This key operates all locks and ignition, except for the glovebox.

With normal use the lithium battery in the key should last more than 5 years. A weakening battery is indicated by a progressive "loss of range", which means you must be closer to the car when pressing the key. Originally the key should have a range of 5 metres. *Tinting the car's windows will reduce the range of the key if the tinting material has a metallic film.*

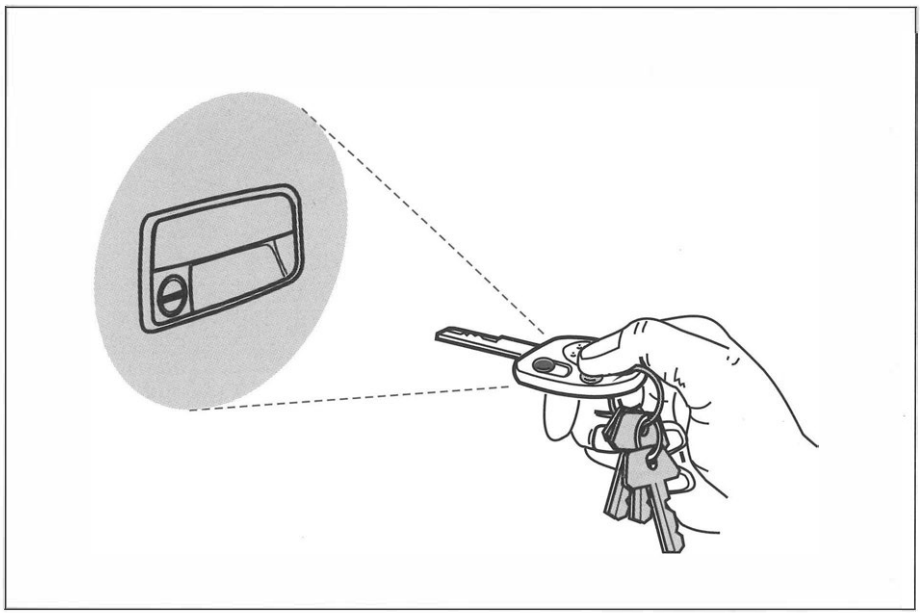


Key numbers - security card

The security card lists various security numbers for your car, including key numbers, and the radio PIN. Please keep the card in a safe place, away from your car. If a key is lost, a replacement can be ordered through any Holden Dealer by quoting the key code number, security number and providing proof of ownership.


IMPORTANT SECURITY INFORMATION
KEEP THIS SECURITY INFORMATION IN A SAFE PLACE AWAY FROM YOUR VEHICLE
VIN (PSN) XXXXXXXXXXXXXXX
IGNITION KEY No. XXXXX
RADIO P.I.N. XXXXXX
SECURITY No. XXXXX
GLOVE BOX No. XXXXX
ENGINE No.
REFER TO RADIO OWNER'S MANUAL FOR SECURITY CODE OPERATION

KEYS



When pressing the key buttons ensure that other keys on the key ring are not between the main key and the car. Other keys can obscure the signal being transmitted to the car.

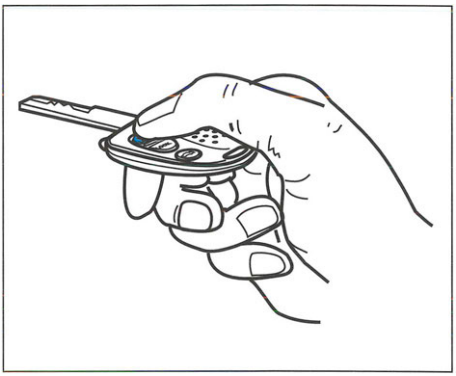
DOOR LOCKS

Unlock

Press the (UNLOCK) button on the key within 2 metres of the car. The turn signals will flash twice.

If (UNLOCK) is pressed once, only the driver's door will unlock. If (UNLOCK) is pressed a second time, or is held down for more than half a second, both the doors will unlock.

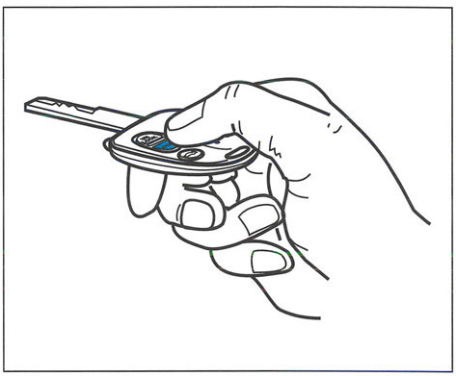
If you prefer to have both doors unlock with a single press, the above 'two stage unlock' feature can be changed to 'both unlock' by computer, at your Holden Dealer.



Lock

Press the (LOCK) button on the key within 2 metres of the car to lock both doors.

The turn signals will flash once when the car is being locked. Doors are locked when the lock knob is down.



Deadlock

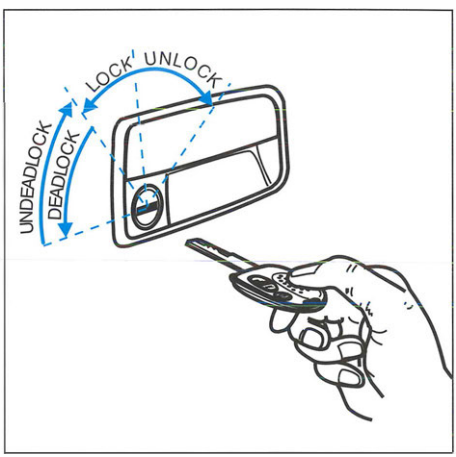
For further protection when leaving the car, you can 'deadlock' the doors.

Turn the key in the driver's door fully anti-clockwise and remove at the horizontal position.

This electronically jams all the electric locks so that neither door can be opened, even if entry is gained by breaking glass.

CAUTION: Do not use deadlock if there are people in the car. The doors cannot be unlocked from inside.

Deadlock can only be set and un-set by turning the key in the door lock. Pressing (UNLOCK) on the key will not un-set the deadlock - the key must be turned in the driver's door lock.



DOOR LOCKS

Notes

- The (LOCK) and (UNLOCK) buttons may not work near high radio activity, for-instance under TV towers. If this happens, the doors can be locked and unlocked by turning the key in the door lock.

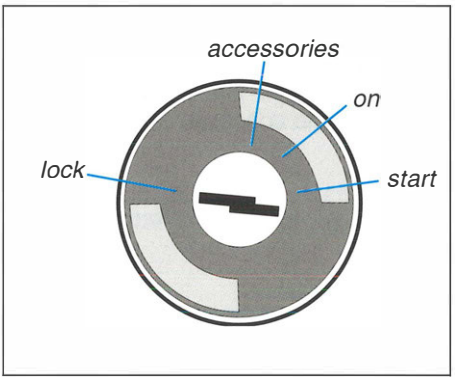
- Both doors can be locked from outside the car by using the key in the front door lock. Turn the key towards the rear of the car to lock all doors, towards the front of the car to unlock.

- The door lock system has been designed to flash the turn signals when the car is being locked with the (LOCK) button. If this does not happen it indicates a fault in the lock system and you should check that the doors have locked.

- If pressing the buttons on the key does not lock and unlock the doors, the battery inside the key may be flat. Turn the key in the ignition to ON, then OFF again and remove. Try pressing (LOCK) on the key again. If it still does not work a replacement key may be needed.

IGNITION LOCK

CAUTION: Do not turn the engine off while the car is moving or there will not be any power assist for brakes or steering. Never remove the key while the car is moving, as this will lock the steering.



Lock

Accessories, electricals and engine are off.

The key is inserted and removed only from the LOCK position.

For your car's protection the engine is automatically disabled 30 seconds after turning the key to the LOCK position, indicated by the flashing light on the dash.

In addition, the steering is automatically locked when the key is removed. To release the steering lock and reconnect the engine, re-insert the key and turn it clockwise.

If you have trouble turning the key to unlock the steering, turn the steering wheel slightly to the right or left while twisting the key clockwise.

Accessories

The engine is not running but accessories such as the radio and wipers still operate.

On

The engine is ready to start and all electrical systems are active. Note the warning lamps (refer pages 1-5 to 1-7) which are designed to illuminate at the Ignition ON position, to indicate the systems are working. Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

Start

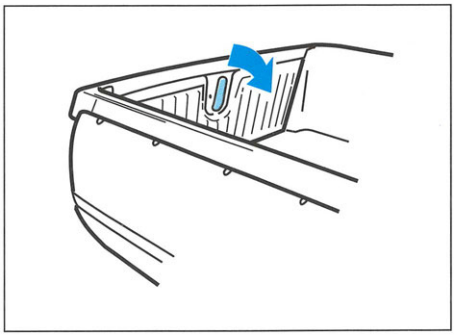
This is the position for starting the engine. The key should be released from this position as soon as the engine starts. It will then automatically return to the ON position.

If you have trouble starting the engine and the security light is still flashing refer Chapter 6 *Emergencies*.

TAILGATE LOCK

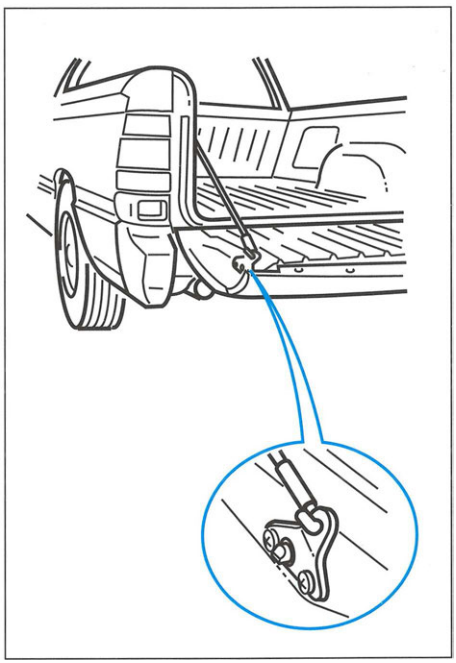
To lower: Reach inside, at the middle of the tailgate and move the lever to the left.

To close: Lift up the tailgate and push firmly back into place.



The tailgate support cable can be disconnected, if required.

However, when reconnecting the cable, ensure that each hook is pointing outwards as shown.



CHAPTER 3

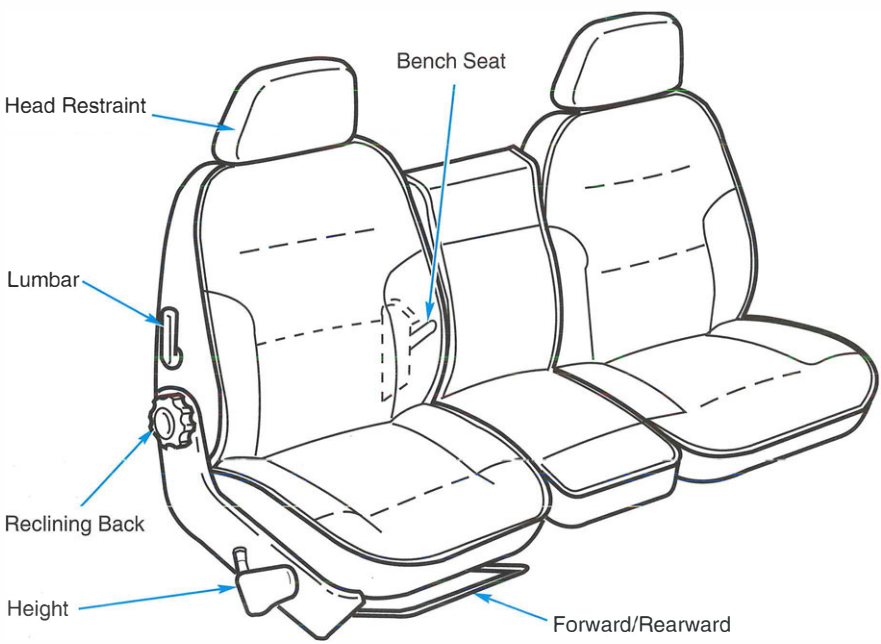
Know your car

Page

3-2 Seat adjustment
3-4 Windows
3-5 Seat belts
3-7 Child restraints
3-8 Mirrors
3-9 Park brake
3-9 Footrest
3-10 Ute tonneau cover
3-10 Sportsbar
3-10 Cigarette lighter & ashtrays

SEAT

Note that this illustrates all seat combinations; different features vary between models.



SEAT

Height adjustment (if fitted)

Extend the telescopic lever on the right side of the seat, and then rotate the lever either up or down, as required.

Lumbar support (if fitted)

Move the lever (on the door side of the seat) to alter support given to the lower part of your back. There are four positions: horizontal for full support, two intermediate positions, and vertical for least support.

Reclining back

Turn the large toothed wheel on the door side of the seat. The seat back will move in the same direction as the top of the wheel.

CAUTION: To avoid reducing the effectiveness of seat belts, seats should only be semi-reclined when the car is moving.

Forward and rearward (if fitted)

Lift up the bar at the front of the seat, then slide the seat forwards or backwards. Release the bar. Try to move the seat back and forth to check that the catch is fully engaged.

Do not adjust the driver's seat when the car is moving, as the seat could move suddenly, causing the driver to lose control.

Head restraint

This safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in a car accident. To adjust the height of the head restraint, pull up or push down, as required.

Bench seat (if fitted)

The middle section of the seat may be used in 2 positions; either upright or folded down for an armrest.

To fold down, reach in between the driver's seat and the middle seat. Move the lever forward and fold the back of the seat down. To regain use of the middle seat, simply push firmly back into the upright position.

WINDOWS

Manual windows

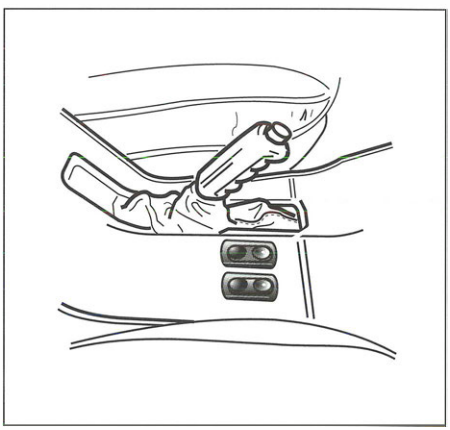
The door windows are lowered or raised by turning the winders fitted to each door.

Electric (if fitted)

Electric windows are operational when the ignition is turned to ON - a green light on the buttons indicates when the system is active.

The controls for the windows are fitted between the front seats.

To raise the window, push raised section. To lower, push indented section.



"Auto down" - driver's window only

Depress the down button for more than half a second and remove your finger. To interrupt the "auto down" press the up button, or tap the down button again.

"Tap" the down button to open the window in short steps.

Time delay

Both windows can be operated for 1 hour after the ignition has been turned off ...provided the doors are kept closed. If a door is opened the time is reduced to 45 seconds. The green "active" light on the buttons will go off when the time delay finishes.

Pressing (LOCK) on the car key, will immediately deactivate the windows.

Pressing (UNLOCK) on the car key, will enable the windows to be operated for 45 secs.

SEAT BELTS

Retractor belts

To fasten, pull the metal tongue across your body and clip into the buckle. When the metal tongue has locked safely into place you will hear a “click”. After fastening, settle the belt at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the belt is free from twists and is fitting firmly.

The "emergency-locking retractor belt" allows you to move while the car is travelling normally but will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Non-retract, lap belts

To adjust: Settle yourself comfortably. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a “click”. Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the car. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

SEAT BELTS

WARNING:

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

Child restraints

- Children should be restrained at all times when travelling in a car.
- Infants unable to sit up by themselves should be carried in an approved infant restraint. Always ensure that the seat belt fits firmly around the infant restraint.
- Children able to sit up should be restrained with regular seat belts or an approved child seat.
- If a child can't see out of the window, don't raise him/her by means of an ordinary cushion. It will not stay in place in a crash and the child can slip out of the straps and become entangled.

WARNING:

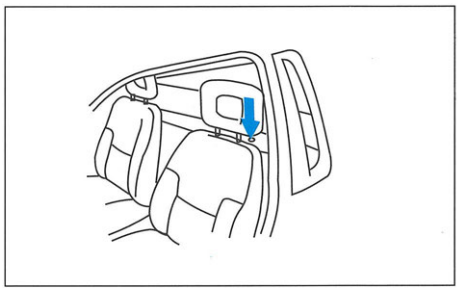
Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.

If your car is fitted with a passenger's side air bag, also refer to caution on page 6-13.

ANCHOR FITTINGS

An anchor fitting was installed in your vehicle, suitable for use with child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments).

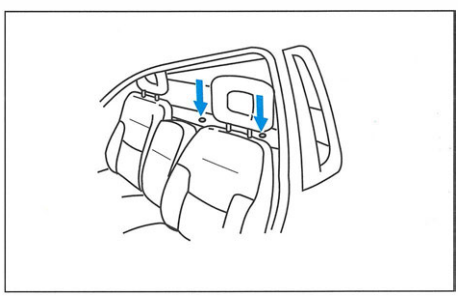
These fittings are *not* applicable to earlier child restraints, as these restraints may not attach securely to this type of anchor fitting.

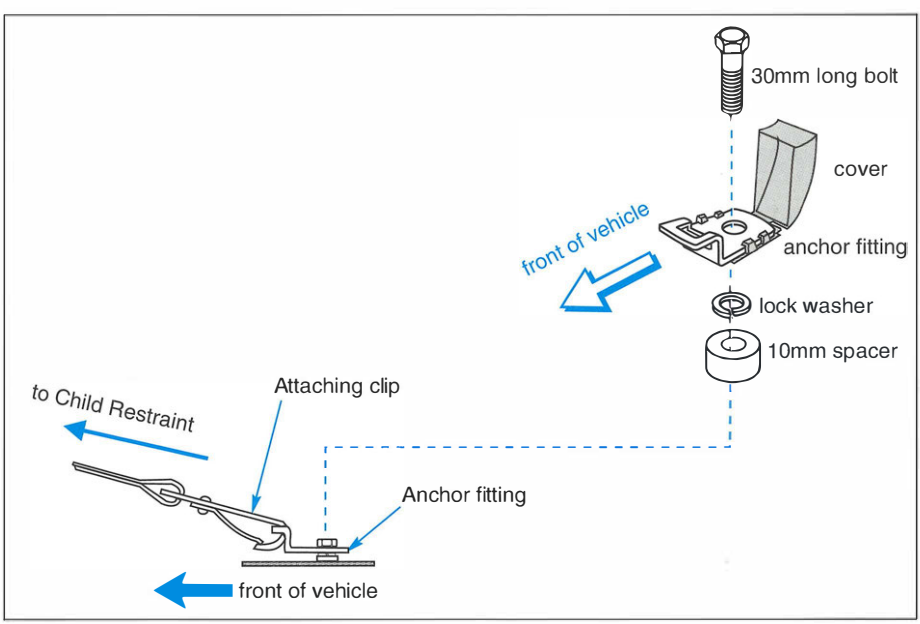


Ute with bench seat

An additional anchor fitting can be installed behind the middle seat.

Install the additional anchor fitting, using the bolt, lock washer and spacer, as per the illustration. Ensure that the bolts are securely tightened to 15~25 Nm.



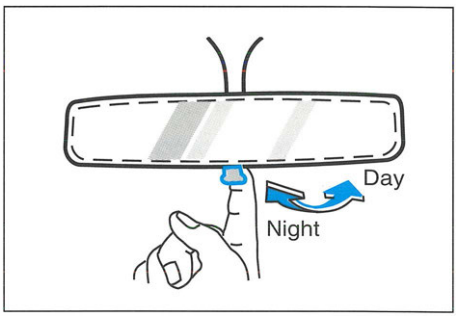


MIRRORS

Internal rear vision mirror

Moving the lever on the lower edge of the mirror reduces headlight glare from following cars when driving at night.

During daylight driving, the lever should be set forward, away from the driver. At night, flick the lever towards the driver.



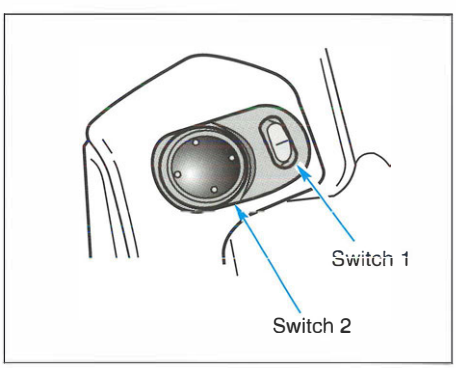
External mirrors

Mirror angle can be adjusted using the switches on the driver's door armrest, when the ignition is turned ON.

Rock *switch 1* to left mirror, or right mirror.

Press the dot on the edge of *switch 2* in the direction you wish the mirror to move. The mirror can move up, down, left or right.

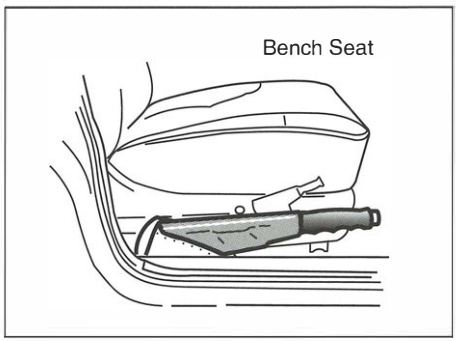
The left mirror is convex shaped, to provide a wider view. Objects will appear further away than they actually are.



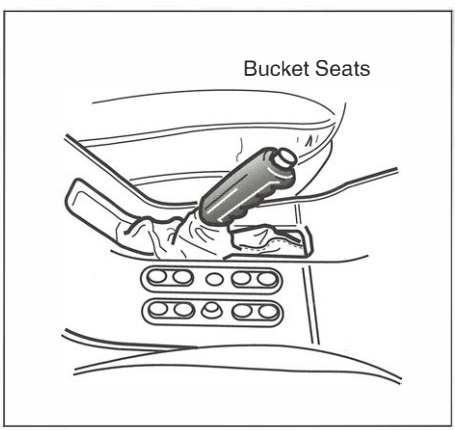
PARK BRAKE AND FOOTREST

Park brake

The park brake lever is on the right of the driver's seat (with bench seat) or between the front seats (with bucket seats).



- To apply, pull the lever straight up, without pressing the release button. To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.
- When the ignition switch is turned to ON, a symbol on the instrument panel will indicate that the park brake is applied.
- NEVER drive the car with the park brake applied.
- IF A WARNING CHIME IS FITTED. If you attempt to drive off without releasing the park brake an audible warning chime will be heard. When driving, this will repeat every minute until the park brake is released.

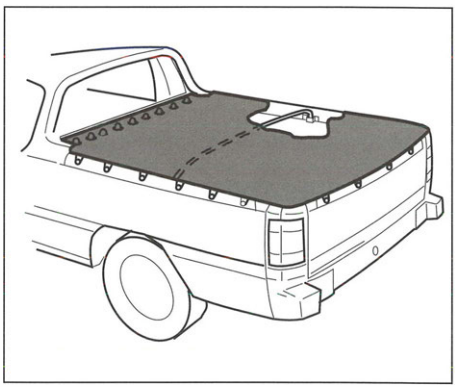


Footrest

The footrest for the driver's left foot is adjustable to three places, on some models. First undo the two screws on the right hand side of the footrest. Move the footrest forward or backward as required, then replace the screws. If you have any problems with this adjustment, your Holden Dealer will be happy to assist.

TONNEAU, SPORTSBAR, CIGARETTES & ASH TRAYS

Tonneau cover (if fitted)



To install the tonneau cover, first secure the press studs along the lower edge of the rear window. The other three sides of the tonneau are held in place with an elasticised strap. Starting at one of the front corners, work around the car, pulling the strap over the hooks on the body of the vehicle.

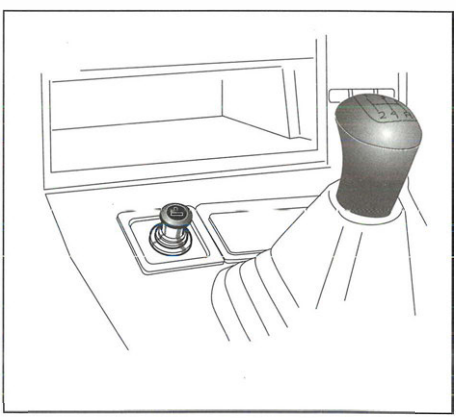
The hooks on the side of the Ute are provided for securing the tonneau cover and should not be used as tie-down hooks, as damage to the body may result.

Goods should be tied down only with the correct anchorages, which are available as an accessory from your Holden Dealer.

SportsBar

The SportsBar is an appearance item only. It does not provide additional protection in an accident and should not be used as a tie down point for loads.

Cigarette lighter



The cigarette lighter is operational when the ignition is turned to either ON or ACC.

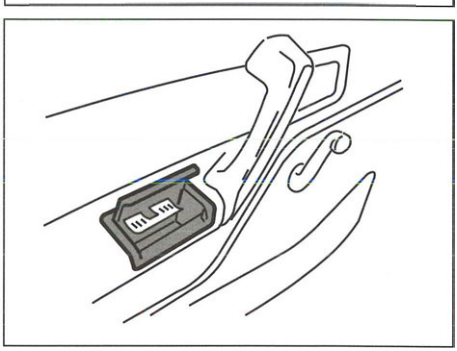
Press in the lighter knob; when the element is hot the lighter will automatically pop out, ready for use.

Front bucket seats. The cigarette lighter is located on the console, between the two front seats.

Front bench seat. The cigarette lighter is fitted beneath the heater controls.

Note: Any accessory device (car fridge etc.) connected into the cigarette lighter socket must not exceed a current draw of 10 amps. If you wish to use a device exceeding 10 amps you should seek the advice of your Holden Dealer.

Ash tray



The front ash tray is located either in the centre console (with bucket seats) or on either door arm rest (with a bench seat). To use, flip up the hinged cover. To clean, pull up the tray by grasping the cover flap.

Notes

CHAPTER 4

Driving

Page

4-2 Safety
4-3 Engine starting
4-4 Automatic transmission
4-6 Manual transmission
4-7 Anti-lock Brake System (if fitted)
4-8 Running-in
4-8 Driving precautions
4-9 Snow chains

SAFETY

Before entering the car

1. Check that windows, mirrors and lights are clean.
2. Visually check tyre inflation (check with a pressure gauge each week).
3. If you intend to reverse, check that the area behind your car is clear.

Before driving off

1. Be sure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

Parking

1. Apply the park brake.
2. Place manual transmissions in REVERSE and automatic transmissions in PARK.
3. Shut all windows.
4. Turn ignition key to LOCK and remove the key.
5. Lock all doors by pressing the (LOCK) button on key when outside the car.
6. Set deadlocking.

CAUTION:

Be careful where you park or drive. As with any car, do not park or operate this car in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Never leave the engine running in a closed garage or underground carpark.

ENGINE STARTING

1. Ensure the park brake is firmly applied and release only after you have started the engine and are ready to drive off.

2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.
   AUTOMATIC: Move the shift lever to P(park) or N(neutral) position. The engine will not start if it is in any other position.

3. Start the engine as outlined below (with your foot off the accelerator).

For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts.

YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO, OR DURING, STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.

You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up. You may cause premature engine wear or engine damage.

Engine won't crank

- PRESS AND RELEASE THE (UNLOCK) BUTTON ON THE KEY and try starting the engine again.
- NEVER PRESS THE KEY BUTTONS WHILE CRANKING THE ENGINE.
- Remove the key from the ignition, re-insert the key and try starting the engine again.
- If the security light is still flashing and engine still won't start refer 6-17 for over riding security system. However, if the engine does not start and the security light is *not* flashing you should see your Holden Dealer.

Flooded petrol engine

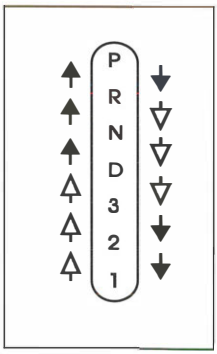
Cranking the engine for a lengthy period without it starting could result in flooding (too much fuel injected into the engine). If this occurs, press the accelerator down to the floor and hold it there while holding the key in the START position.
When the engine starts, allow the accelerator pedal to come up slowly.

AUTOMATIC TRANSMISSION

Floor mounted shift

Raise the release bar below the T-bar handle when shifting into any position indicated by the black arrow.

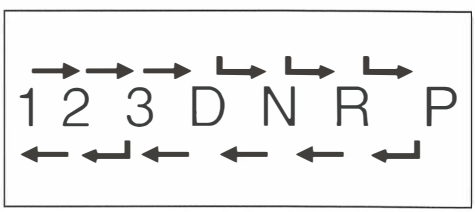
You may shift *without* raising the handle into any position marked by the outline arrow.



Column mounted shift

The gear shift lever is mounted on the left of the steering column, the gear indicator is mounted just above the steering column.

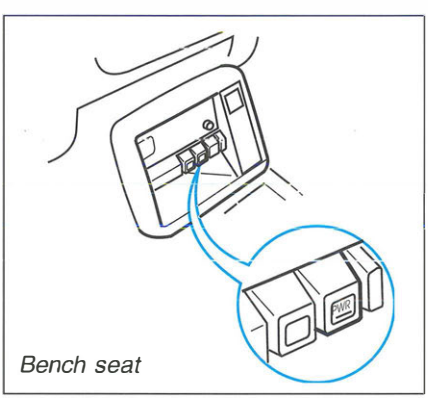
Pull the shift lever towards you when shifting into any position indicated by the bent arrow. You may shift into any position marked by the straight arrow *without* pulling the lever towards you.



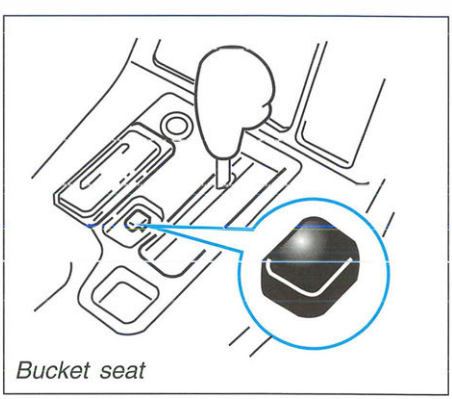
Power/economy mode

The transmission operates in two types of modes: power and economy. The PWR reminder light on the instrument panel will glow when in the power mode.

Economy mode is recommended on normal or freeway driving, as it gives better fuel economy. Power mode has revised automatic transmission shift points, to give the car a more responsive feel.



Bench seat



Bucket seat

AUTOMATIC TRANSMISSION

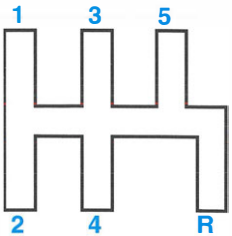
P (park)	This prevents the rear wheels from turning and so should be selected (together with the park brake) when leaving the car. Never select P until your car is fully stopped. The engine can be started in this position.
R (reverse)	Never select R until your car is fully stopped. Reverse lights will operate when R is selected and the ignition is on. After reversing, make sure the car has fully stopped before selecting another gear position. After selecting R, pause for a moment before accelerating, to allow the transmission to "engage" reverse gear.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the car is still moving.
D (drive)	This is the most effective position for normal or freeway driving. The drive position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to 4) for the existing load and driving conditions. After selecting D from P or N, pause for a moment before accelerating, to allow the transmission to "engage" the forward gear. Use this position, together with the PWR mode for most towing (economy mode can be used for towing under ideal conditions).
3 (third)	Third is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift to first, second or third gear as conditions require. Drive (4th gear) is excluded.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little with minimal use of the brakes. The transmission will shift to first or second gear as required. Move the lever back into the drive position to return to normal driving.
1 (first)	Use this position when strong braking effect is needed on a steep gradient, below 60km/h. Remember to move the lever back to drive position so that the transmission will again upshift into higher gears. Even though the T-bar may be in 1, the transmission will not select first gear until car speed is less that 60 km/h. Take extreme care when selecting 1 if towing a trailer or caravan on a steep incline. Even though the T-bar may be in 1, the transmission will upshift automatically to second gear at about 5,700 rpm.

- The transmission will not downshift to 1st gear when speed is above 60 km/h.
- Don't rev the engine with the brakes on in either 1, 2, 3, D or R. This will overheat the transmission.
- Don't rev the engine to hold the car on a slope. Use the brakes.
- Don't coast the car in N - this lessens your control and you may need to accelerate quickly in an emergency.
- Refer page 7-7 when checking automatic transmission fluid level.
- The engine will not start unless the selector is in P(park) or N(neutral).

MANUAL TRANSMISSION

The transmission has 5 forward gears and a reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.

When selecting REVERSE gear you must shift the gear lever sideways against spring pressure in order to pass into the gear.



Changing upwards

The recommended change speeds at which upwards gear changes should be made (under normal conditions) are shown in the chart.

Upshifting at higher road speeds will be necessary according to varying driving conditions such as load, road gradient, during overtaking and when other than light acceleration is required.

RECOMMENDED CHANGE SPEEDS				
Gear change	Normal conditions		For max *economy	
	V6	V8	V6	V8
1st-2nd	25 km/h	20 km/h	15 km/h	20 km/h
2nd-3rd	45 km/h	30 km/h	25 km/h	30 km/h
3rd-4th	60 km/h	45 km/h	40 km/h	40 km/h
4th-5th	85 km/h	65 km/h	55 km/h	55 km/h

*when driving under light load/low acceleration

Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the car has completely stopped. A slight pause between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the reverse lights will operate.
- Shift the gear lever with a moderate effort to allow time for the transmission synchromesh to work properly.
- To avoid damage to the clutch, do not drive with your foot resting on the clutch pedal.
- When stopped on an incline do not hold the car by slipping the clutch. Use the park brake or foot brake.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not over speed the engine when shifting down to a lowest gear.
- 4th gear provides direct drive and 5th gear, overdrive.

A.B.S. (if fitted)

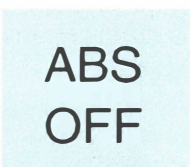
ABS (Anti-lock Brake System) is in addition to your car's normal brake system. It prevents the wheels from locking up when braking, irrespective of the road conditions and tyre grip. It starts to regulate the braking as soon as a wheel shows a tendency to lock. The car remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

Maximum braking is provided for each wheel, up to the point where it would lock. This means that steering control is retained.

In an emergency braking situation the driver should keep full force on the brake pedal, without 'pumping' the brake pedal. 'Pumping' the brake pedal can reduce brake efficiency when ABS is controlling the braking.

DO NOT let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by safe driving. Your speed should always be adjusted to suit road and traffic conditions.

An ABS OFF warning light is provided beneath the gauges. To check that the bulb is working, the light will come on for a few seconds when the ignition is turned on. If this symbol is displayed when driving a malfunction of the ABS system is indicated. Remember, however, that this only means that the ABS's 'no lock' assistance is not operating, your car's conventional brake system will still operate normally.



When your car is in a critical braking condition ABS will make itself noticeable through pulsing of the brake pedal and the noise of the regulation process, thereby reminding you to match your speed to the road conditions, even though it is keeping control of the braking.

The ABS system performs a self check each time the car is driven. This can sometimes be heard as well as felt, as pulsing, through the brake pedal.

DRIVING PRECAUTIONS

"Running in"

These days, there's no need to follow a formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your car's future performance and economy.

For the first 500 kilometres, don't exceed 100 km/h and avoid using heavy acceleration.

Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time. Therefore, avoid using the cruise control (if fitted) while "running-in". However, include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

It is best to drive your new car for 1,500 km before towing a load. If you must tow before this do not exceed 80 km/h. The same applies if you have a new or reconditioned engine, transmission or rear axle.

Engine misfire warning

Reduce speed and do not tow a caravan or trailer - until the misfiring is corrected at the nearest Holden Dealer. Otherwise, the catalytic converter and exhaust system may overheat, resulting in car damage.

Brakes

- The "power assisted" brakes, fitted to your car, use vacuum from the engine when it is running. Therefore, never let the car run down hills with the engine off, or coast after switching the engine off.
- Your seat should be positioned so that you can push the brake pedal easily. Nothing should be under the brake pedal which could limit pedal travel, for-instance, poorly fitting floor mats.
- Consistent, heavy use will shorten the life of the brake pads.

Power steering

The "power assisted" steering, fitted to your car, has been designed to reduce steering effort. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates high operating temperatures and pressures within the system.

If power assistance for the steering isn't working, due to the engine stalling etc., the car can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

DRIVING PRECAUTIONS

Tyre grip

A decrease in tyre grip occurs when water, snow, ice, gravel or other materials are on the road. Driving speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of grip, which affects steering and braking. To reduce the possibility of hydroplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Check that tyres are properly inflated.

Water crossing

Before crossing water it is recommended that air conditioning be switched off if your car has a 3800 (V6) engine.

Crossing deep water could damage the engine. It is recommended that the water depth be no more than 175mm and speed be limited to a walking pace. Brakes may then need drying out: lightly apply the brakes while maintaining a slow forward speed, with a clear area ahead, until brake performance returns to normal.

Snow chains

- Due to lack of clearance, snow chains should not be fitted to 7" wide wheels, as fitted on S models.
- Snow chains should be fitted only on the rear (drive) wheels.
- Depending on design, large hub caps may contact parts of the chain. If so, remove the hub caps. Any valve extensions should also be removed.
- Snow chains may only be used at speeds up to 50 km/h.
- Snow chains should only be used for short distances if the roads are not snow covered. The hard road surface causes rapid wear and the chain may break.
- The part of the snow chain that covers the tyre tread should not be thicker than 13mm. The part of the snow chain that wraps around the side of the tyre should not be thicker than 18mm (including the chain clasp). The use of thicker chains may cause damage to the body of the car.
- Ensure that tyre pressures are as per pressures recommended on the tyre placard.

Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the car's electronics (permanent damage is unlikely) when used inside the car, due to the interference created when transmitting.

Therefore, mobile phones and CB equipment that use an antenna fitted to the outside of the car should be used whenever possible.

If phones or CBs with an integrated antenna *must* be used inside the car, care should be taken not to operate near the dashboard area.

CHAPTER 5

Fuel

Page

5-2 Carbon monoxide caution
5-3 Petrol filling
5-3 Fuel Tank capacities
5-4 Emission Control
5-5 Reducing fuel consumption
5-1 Measuring fuel consumption

PETROL

EXHAUST WARNING - CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your car is faulty.

To protect against exhaust gases entering the car, the exhaust system and body should be inspected:

- each time the car is serviced,

- whenever a change is noticed in the sound of the exhaust system,

- whenever the exhaust system, underbody or rear of the car is damaged.

Take the car to your Holden Dealer if you think your car needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE CHILDREN OR PETS) IN A PARKED CAR FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE CAR.

PETROL CAUTION:

- Petrol is extremely flammable and highly explosive.
- Always turn off the engine when refuelling.
- Do not smoke or allow open flames or sparks near the car when refuelling.
- If petrol fumes are smelt while driving, the cause should be found and corrected without delay.

PETROL

Open the petrol flap from outside the car.

The petrol cap (under the petrol flap) is a screw-on, ratchet type. After refilling, tighten the cap clockwise until a clicking noise is heard, before closing the petrol flap.

Tank capacity = 63 litres

Use UNLEADED PETROL of 91 octane rating, or higher. High octane unleaded petrol ("Premium" etc.) may be used, but is not required by your car.

The use of any other fuel will seriously damage the engine of your car and may void your Warranty. Only clean petrol of good quality should be used.

Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off or petrol blows back - as this allows room for the petrol to expand inside the tank.

It is only permissible to "trickle fill" petrol tanks when the car is to be driven for more than 50 km straight after the tank is filled. However, this is not recommended on days over 30°C.

Wipe off any overflowing petrol immediately from the car; spray or splash with water.

EMISSION CONTROL

Your car is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your car are:

1. **Evaporative Emission Control System** (Australian Cars Only)
   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.
2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian cars have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your car's service manual and/or the emission label inside the engine compartment (on the passenger side strut tower) of your car.

Owner responsibility

Cars sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of the car must NOT be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

Any person who removes, modifies or hinders any part of the emission control system will be contravening regulations. It is also illegal to drive a car modified in this way.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your car's emission control system as per your car's service manual, at the frequency shown in the Maintenance schedule in chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedule, refer page 12-5. This will ensure items such as the spark plugs, air cleaner, engine idle speed etc. are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance which contributes to increased fuel consumption, refer page 7-11.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

Drive the car at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Turn off the air conditioning, when not required. However, once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter, to lubricate seals.

MEASURING FUEL CONSUMPTION

Before checking

- Fuel consumption should not be judged until the engine has been "run-in". You should wait at least 1,500 km before checking fuel consumption.
- Please read information on the preceding page regarding fuel consumption.
- Find a petrol station and petrol pump that will be convenient to use for the next few tank fills. This is necessary due to variations in pumping speeds between petrol pumps and petrol stations.

To check fuel consumption

1. Reset the tripmeter in the instrument panel to zero, refer page 1-4.
2. Fill the fuel tank until the petrol pump first clicks off.
3. At the time of the next refill return to the same petrol station and petrol pump.
4. Record the distance travelled on the tripmeter and again reset the tripmeter to zero.
5. Fill the fuel tank until the petrol pump first clicks off.
6. Record the amount of petrol added to the tank from the petrol pump.

Calculating

1. Multiply the amount of petrol by 100, then divide the result by the kilometres driven.

   The answer is the "litres per 100 kilometres" consumption rate.

   e.g. 43.8 litres used, 476.3 km driven: $\frac{43.8 \times 100}{476.3}$ = 9.2 litres per 100 km

2. Repeat this procedure three to five times, to get an average reading. This will take account of variables such as load, weather conditions and city/highway driving.

CHAPTER 6

Emergencies

Page

6-2 Accident
6-3 Medical assistance
6-4 Flat tyre
6-8 Engine overheating
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6-12 Air bag
6-14 Towing a disabled car
6-14 Hazard warning flashers
6-15 V6 engine belt replacement
6-16 Engine won't start
6-17 Fuses
6-18 Bulb replacement

Your new car is covered for 3 years by 24 hour Roadside Assistance, refer Chapter 9.

ACCIDENTS

All drivers are advised to learn what to do at the scene of an accident, particularly where people are injured. Injured people can choke to death if their air passages are not cleared, they can bleed to death unless the bleeding is stopped, they may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for rescuers, victims and bystanders.

The following notes may help.

Accident - being involved

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see following page).

Send for police and ambulance if anyone has been injured. Give information as accurately as possible: the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, car registration, owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his/her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Accident - being a witness

If you witness a road accident or it becomes your task to stop and help:

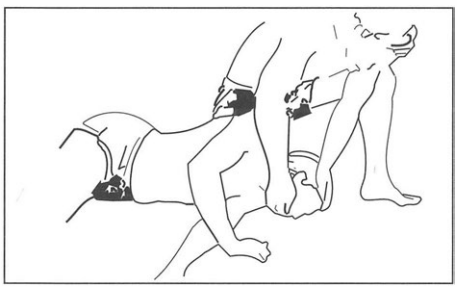
- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator. If other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons. (see following page).
- Follow most of the steps suggested above. Perhaps you may have to take charge of the accident situation.

ACCIDENTS

Medical assistance

Keep calm and think clearly. Your experience may not be much but do your best.

- Look after the unconscious person first. Check airway, breathing and circulation. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.



Unconscious people can choke.

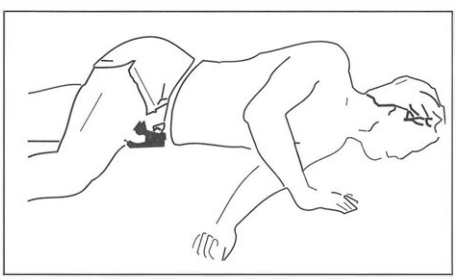
Carefully turn to one side.

Tilt the head back slightly.

Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND OR TWIST A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.

- Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.



Lay the person on one side and - if it will not aggravate any injuries

Bend the uppermost knee until the thigh is at right angles to the body.

Bend the uppermost arm and elbow so that the hand lies near the face.

Gently pull the underneath arm so that it rests straight on the ground, free of any body weight.

- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.

- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.

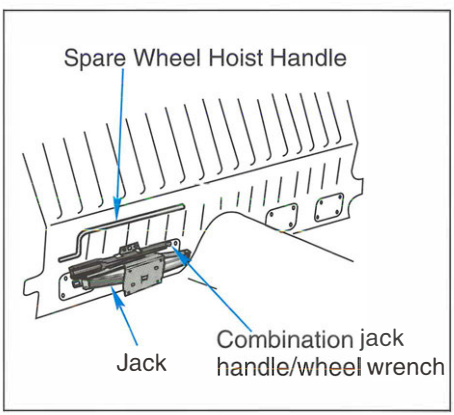
- If the injured person is in danger and has to be moved, try and have three or four people help, concentrating on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

FLAT TYRE

CAUTION:

- Use the jack only for lifting the car when changing wheels.
- Never get beneath the car when it is only supported by the jack.
- Do not start or run the engine while the car is only supported by the jack.
- All passengers should be out of the car when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations can damage the car.
- The car should only be jacked on hard, level surfaces.
- If using a jack other than the one supplied with the car, read page 7-14 for lifting positions.

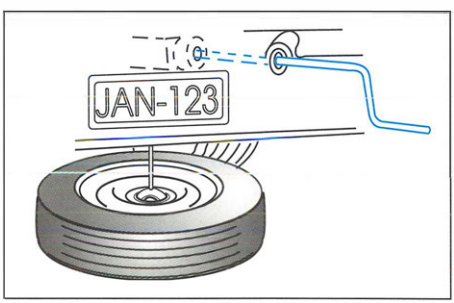
1. Park on a level surface and set the park brake firmly.
2. Remove the ignition key and place manual transmissions in REVERSE gear or automatic transmissions in PARK.
3. Remove the jack, combination jack handle/wheel wrench and spare wheel hoist handle from behind the seats:



4. At the rear of the ute insert the hoist handle through the round hole near the rear number plate.

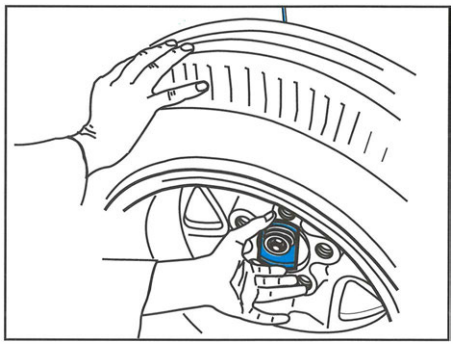
   "Jiggle" the hoist handle until the square end of the handle is located in the square cut out in the hoist.

   Turn the hoist handle anti-clockwise to fully lower the spare wheel.

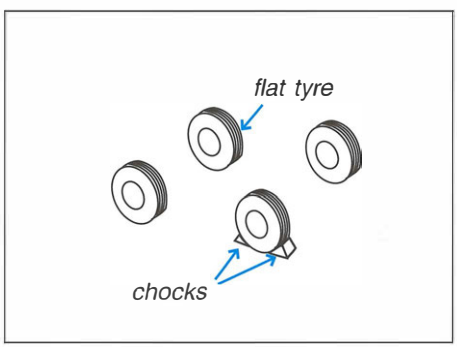


FLAT TYRE

From underneath the wheel, tilt the wheel retainer, and pass it up through the centre of the wheel.



5. Block the wheel diagonally opposite the flat tyre.



6. If wheel trim covers wheel nuts, remove as follows:

   If centre cap is fitted, remove the centre cap by inserting the handle end of the wheel wrench tool between the wheel and the centre cap at the slots provided and gently lever off.

   If individual plastic caps fitted, remove the individual plastic caps, covering the wheel nuts.

7. Loosen, but do not remove, wheel nuts by turning wheel wrench anti-clockwise.

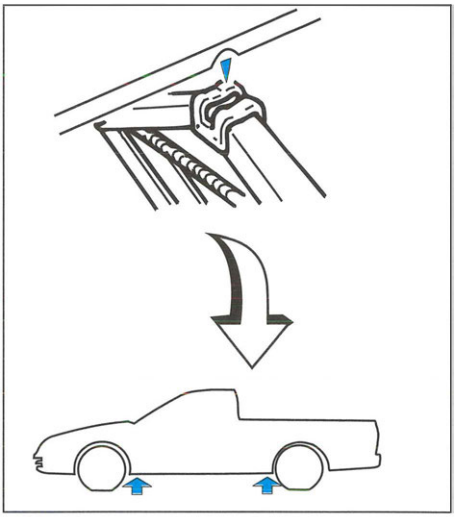
FLAT TYRE

8. Place the jack below the jack location closest to the wheel being changed.

   There are four jack locations, two each side of the car. The jack locations (blue arrows in the illustration) are marked by half circle cut outs on the car, (see illustration).

   Always read the label on the jack.

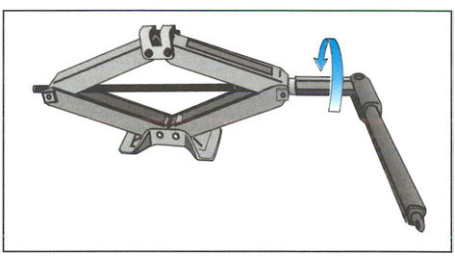
   CAUTION: Failure to position the jack as described above could cause the car to slip off the jack.



9. Ensure that the jack is not tilted and that the base is resting squarely on the ground.

   Wind the jack up to fit the "U" shaped lifting foot of the jack around the car body, at the jack location.

   The jack handle must be *unfolded* into a right angle to use.



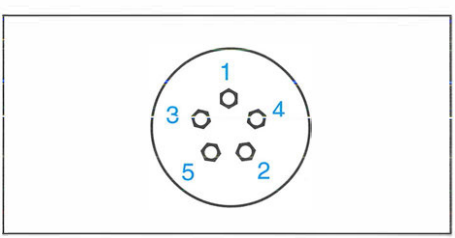
10. Raise the car until the tyre is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.

11. *Cars where wheel trim is held in place with wheel nuts (as on base model Ute):* Remove wheel centre cap and place with wheel nuts.

12. Remove the wheel from the car and change it over with the spare.

13. *Cars where wheel trim is held in place with wheel nuts (as on base model Ute):*

    Replace centre cap on installed wheel.



FLAT TYRE

14. Replace the wheel nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.

15. Lower the car completely and remove the jack.

16. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.

17. Replace any wheel trim which covers wheel nuts, as follows:
    Note that each type of wheel trim fits in a specific position on the wheel. If incorrectly placed the trim will not sit "flush" and, if forced, may damage the wheel.

    • Where plastic centre cap fitted: note the two notches on the underside of the cap. These must be lined up with the same slot provided for removing the wheel trim. Push on by hand.

    • Where metal centre cap fitted: note the cone shape on the underside of the cap, which must be lined up with the cut-out in the wheel. Push on by hand.

    • Where individual plastic nut caps fitted, replace caps on each nut.

18. Place the flat tyre under the ute, directly beneath the hoist with the tyre valve facing upwards. Tilt the wheel retainer and place through the wheel.
    Insert the hoist handle and turn clockwise, as far as possible, until a positive stop is felt.
    Stow all tools behind the seats, as shown on earlier pages.

19. Have the flat tyre repaired as soon as possible.

CAUTION:

As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 100~125 Nm.

Wheel nuts should be tightened evenly to the correct torque in the sequence shown, as improperly tightened wheel nuts could eventually allow the wheel to come off while the car is moving!

ENGINE OVERHEATING

CAUTION:

Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving over to the right, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury or vehicle damage.

Pull out of the traffic as soon as possible and stop the vehicle. Leave the engine idling and the park brake applied while you get out and check that the cooling fan is working.

CAUTION:

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes STOP the engine and remove the ignition key.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump. Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level.

CAUTION:

Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING

When the engine has cooled sufficiently, check the engine coolant level as follows:

Cover the radiator cap with a thick cloth and turn slowly anti-clockwise (without pressing down) until it reaches a “stop”. This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

Then, remove the plastic coolant tank cap, refer chapter 7 for location.

With the radiator cap OFF, top up the plastic coolant tank if required, refer page 7-3 if unsure of location. Remember to ensure cap is secure after filling. Then, **WHILE THE ENGINE IS IDLING**, top up the radiator (if required) and replace the radiator cap.

After taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the car attended to, as soon as possible, by a qualified mechanic.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

You should avoid driving for prolonged periods in any of the above conditions if the temperature gauge shows "hot". It may help to turn off the air conditioner in these conditions.

Page 7-6 gives instructions to help protect your cooling system from overheating.

FLAT BATTERY

CAUTION: DO NOT "push start" or "tow start" your car, either manual or automatic. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can "jump start", but not "push start" your car.

If after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your car that you leave the starting to a competent mechanic.

Jump starting

CAUTION:

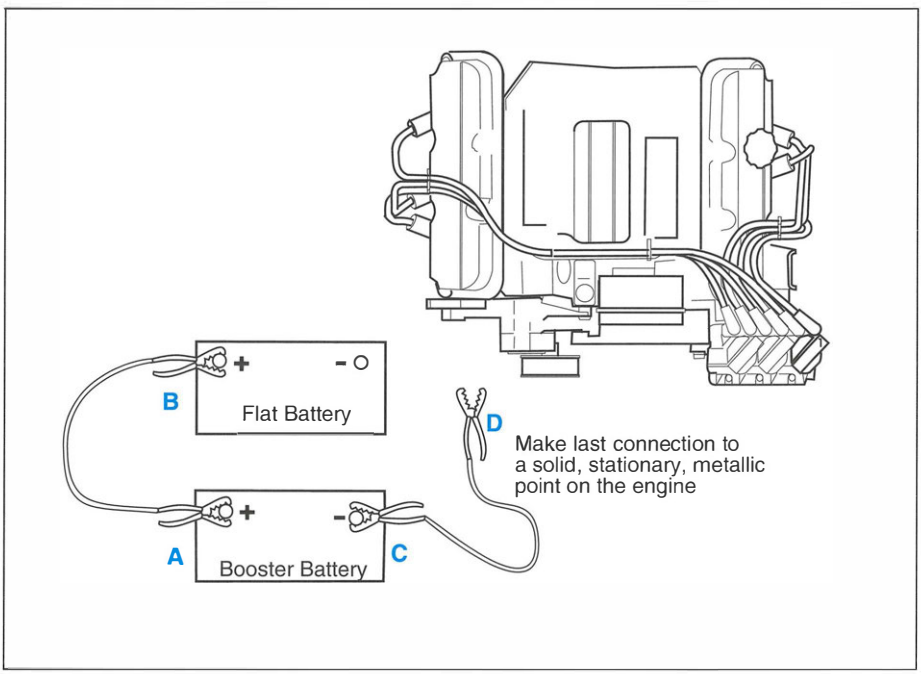
Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, when working near a battery:

- Do not use open flames or sparks near the battery.
- Do not smoke near a battery.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with lots of water immediately. If it gets in your eyes you should not only wash with lots of water but should also seek medical help. Battery acid will also damage paint and fabrics if not washed off Immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Never use a quick charger to start your engine.
- If you have a telephone fitted to your car, you should remove the fuse for the telephone before jump starting. Remember to reinstall the fuse afterwards.

1. The battery in your car has a negative earth and a 12 volt rating. The battery in the other car **MUST** also have a negative earth and a 12 volt rating.
2. Position the two cars so that they are NOT touching, apply the park brakes, put automatic transmission in PARK, manuals in NEUTRAL. Turn ignition to LOCK and switch off all lights and accessories in both cars, except the hazard warning flasher or any lights needed for the work area.

FLAT BATTERY

3. Attach one end of the RED jumper lead to the positive terminal of the booster battery (identified by a red colour, + or P) and the other end of the RED jumper lead to the positive terminal of the flat battery.



4. Attach one end of the BLACK jumper lead to the negative terminal of the booster battery (identified by a black colour, - or N) and the other end of the BLACK jumper lead to a solid stationary, metallic point on the engine of the car with the flat battery. DO NOT CONNECT DIRECTLY TO NEGATIVE TERMINAL OF CAR'S BATTERY.

5. When making all connections take care that the jumper lead clamps do not touch each other. Also, ensure that jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the car with the good battery and run the engine at a moderate speed. Then start the engine with the flat battery.

7. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

Note that your radio may require input of the PIN, refer page 1-13.

AIR BAGS (if fitted)

If your car is fitted with a driver's side air bag the words "SRS AIR BAG" will be stamped on the horn pad of the steering wheel.

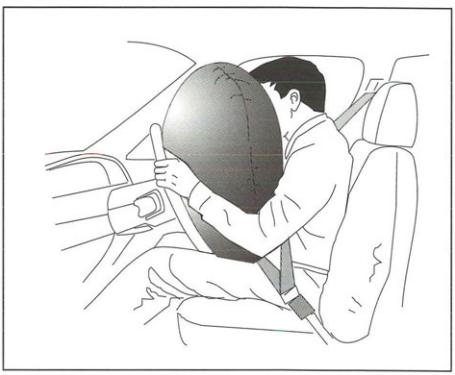
If your car is also fitted with a passenger's side air bag a label will be attached to the underside of the passenger's side sun visor.

If your car is fitted with both air bags they will operate as a pair - they are triggered simultaneously.

If your car is involved in a severe front end collision, the air bag will inflate, assisting the seat belt to restrain forward body movement.

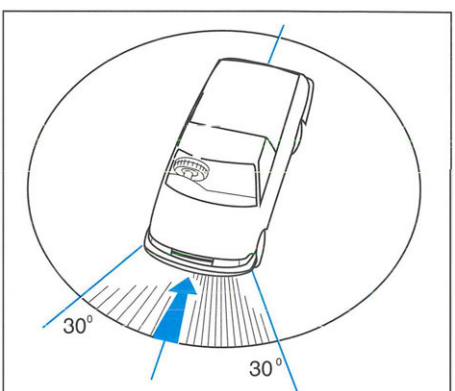
An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

The air bag will then deflate - the whole process *only taking a moment*.



The air bag is also called the "Supplemental Restraint System" as it assists, but does not replace the seat belt. The air bag is not designed to inflate if the car is hit from the rear or side or the car overturns. *Seat belts (by law) should be worn by all passengers whenever the car is moving.*

Air bags inflate with great force. If you are too close to an inflating air bag it could seriously injure you. Seat belts help keep you in position for air bag inflation in a crash.



Air bag will inflate if car struck hard, within the shaded section. Air bag will not inflate if car struck from side, rear, or in some rollovers....always wear a seat belt.

An AIR BAG warning light on the instrument panel will glow for 3 to 4 seconds when the ignition is switched ON. This is to indicate that the air bag is operational. If the light *does not* show when the ignition is switched to ON, or if it illuminates when driving, you should contact your Holden Dealer, as the air bag may not function in an accident.

AIR BAGS (if fitted)

After an accident in which the air bag system was triggered, the air bag system (steering wheel, steering column, air bag and sensor) will have to be replaced by your Holden Dealer. Where a passenger side air bag is fitted, the air bag assembly, air bag cover and the dash panel, will have to be replaced.

The system should also be inspected by a Holden Dealer if the steering wheel or dash board area is scratched, cracked or damaged. Remember that the horn pad must not be covered with adhesive or any other material, as this may hinder air bag operation.

CAUTION:

If a passenger's side air bag is fitted, the dash board area must be kept clear with nothing sitting around this area or hanging from the sun visor.

Extensive design and testing has gone into the Holden air bag system. It is extremely reliable and has very little chance of accidental inflation. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. Any work to the electrical system, steering column, dash board area, steering wheel or air bag system should *only* be carried out by an authorised Holden Dealer.

BULL BAR NOTE: Fitting a "bull bar" can change the impact speed which would normally cause the air bag to inflate, reducing its effectiveness. Please read the note on page 10-3.

Passenger's side air bag and child restraints

CAUTION:

NEVER install a rear-facing child restraint in the front seat of cars with a passenger's side air bag. The child could be seriously injured if the passenger's side air bag inflates, as the back of a rear-facing child restraint would be very close to the inflating air bag.

You may install a forward-facing child restraint in the front seat, but ALWAYS move (an adjustable-type) passenger seat as far back as it will go.

TOWING A DISABLED CAR

Towing a disabled car

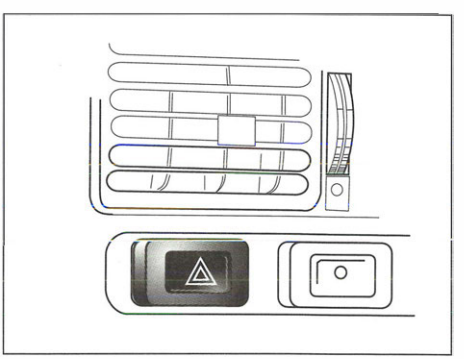
Proper lifting or towing equipment is necessary when lifting or towing the car to prevent damage. Country, State and Local laws must be followed. In an emergency, your car may be towed on all four wheels in the following manner:

- Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.
- Place transmission in neutral position and release the park brake.
- Switch the ignition key to "ACC" position. This will free the steering lock and allow the correct operation of windscreen wipers and turn signals.
- For the sake of safety and to prevent damage to the car it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that *power assist* for brakes and power steering will not be available when the engine is off. The brakes and steering will still function, but will take greater effort.
- To prevent exhaust fumes from the towing car entering into the towed car, close the windows and move heating and ventilation controls to "re-circulate" position.
- Cars fitted with automatic transmissions must not be towed for more than 55 km or at over 55 km/h unless the propeller shaft is removed.
- Cars with damaged transmissions must not be towed unless the propeller shaft is removed.
- Only the driver should be in a towed car.

Hazard warning flasher

Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night.

- Turn on the hazard warning flasher by pushing the switch in the centre of the dash. The arrow symbols on the instrument panel will both flash simultaneously and all external signal lights will flash continuously.

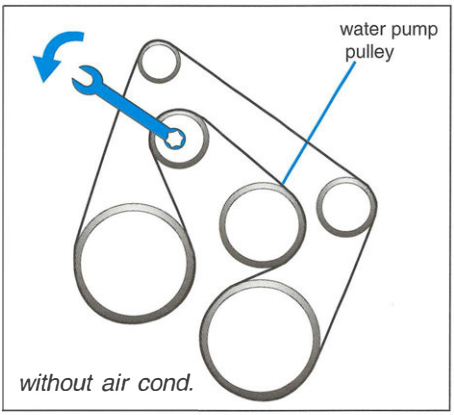


6 CYLINDER ENGINE BELT

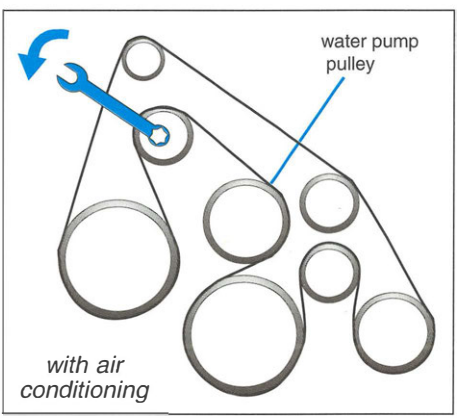
If the 6 cylinder engine accessory belt is broken, replacement is as follows:

- Feed the belt over the pulleys as shown - except for the water pump pulley. Ensure the belt is correctly installed around the pulleys before proceeding.
- Put a 15mm ring spanner over the bolt in the centre of the pulley shown.
- Move the spanner in the direction shown to release the tension on the belt.
- Feed the belt around the water pump pulley, then slowly release and remove the spanner.
- The belt will automatically adjust when the engine is started.

Removal of the belt is the same as replacement, that is, you must remove the tension on the belt with a spanner while removing the belt.



without air cond.

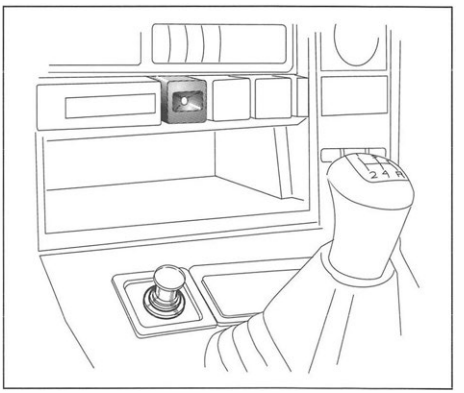


with air conditioning

ENGINE WON'T START

For your car's protection, the engine is automatically disconnected 30 seconds after the ignition is switched off. The security light will start flashing when this has happened.

Inserting the key in the ignition and turning to the ON position will automatically reconnect the engine.



- If the engine won't start and the security light is still flashing, press the (UNLOCK) button on the ignition key until the security light stops flashing. If the engine still will not start, and the security light is still flashing, the system may be overridden by the following:

  1. Insert the key in the ignition lock and turn it to the ON position (instrument warning lights will illuminate). You will have to ignore the alarm if it is now set off.
  2. Turn off all accessories (so as not to flatten the car's battery).
  3. Wait for about 2 hours. Do not turn the key during this time. *Note that the security light stops flashing when the engine is ready to be started*
  4. Turn the key directly to the start position and start the engine.

  If the engine now starts you should see your Holden Dealer to have the security system checked. You may have to wait 2 hours each time you wish to start the engine - until the system is fixed by your Holden Dealer.

  If the engine doesn't start remember that your new car is covered for 3 years by 24 hour Roadside Service, refer page 9-8.

- Even if the battery inside the key is too flat to transmit the signal to unlock the doors, you may still unlock the doors by turning the key in the door lock barrel (which may set off the alarm, if fitted). The engine will be reconnected as per normal (by turning the key in the ignition) despite the flat key battery. This will also turn off the alarm.

FUSES

The main fuse panel is in the instrument panel, to the right of the steering column.

Undo the three lock buttons a half a turn with the ignition key, then pull the hinged fuse panel down to reveal the fuses.

The separate, fuse/relay box is located in the engine compartment, refer page 7-3 for location. Access to these fuses is gained by removing the snap on cover.

Both covers have diagrams showing the layout of the fuses and the amperage rating.

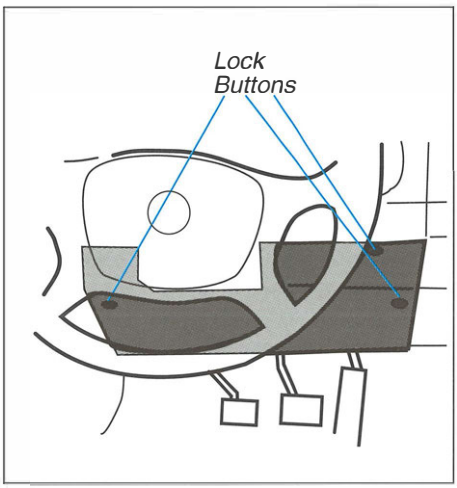
To determine whether or not a fuse is "blown", it is necessary to pull out the suspect fuse and examine the element in the fuse. A fuse puller is provided under the fuse panel cover, inside the car.

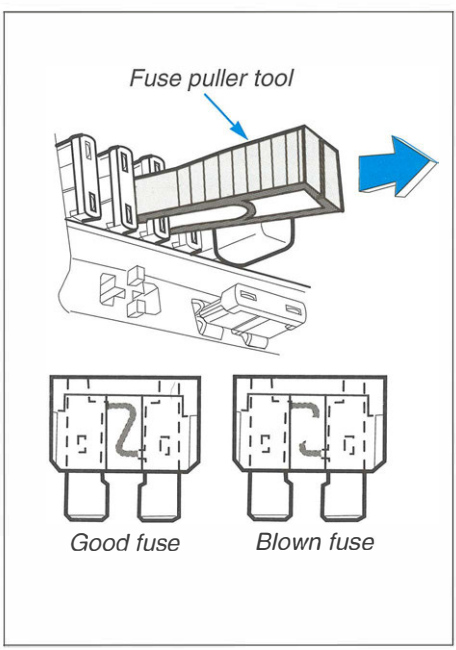
If the fuse has blown, replace with one of the same amperage, as stamped on the fuse head.

If a fuse blows twice in a row a fault is indicated. The cause should be located and fixed, by a Holden Dealer.

Ensure that the fuse cover, either inside the car, or under the bonnet, is securely in place. When replacing the three lock buttons (on the fuse panel cover inside the car) turn clockwise while pushing in, until the lock button is secure and the slit is horizontal.

CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.





BULB REPLACEMENT

Headlights (60/55 watts)

Do not touch bulbs or reflectors with bare hands. Greasy fingers will cause stains which evaporate - eventually resulting in a dull reflector. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

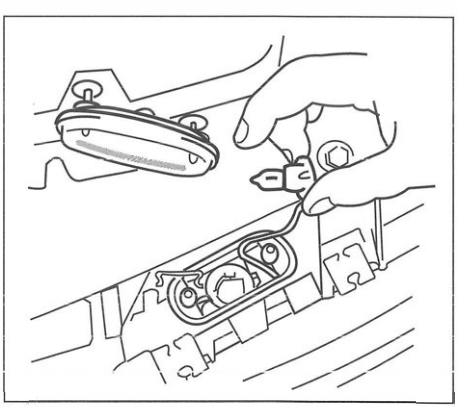
1. Open bonnet. Turn dust cap anti-clockwise and remove from rear of headlight assembly.
2. Pull off wiring harness connector from rear of bulb.
3. Unclip spring retainer and pivot clear of bulb, then remove bulb.
4. Refit new bulb into place, refit spring retainer, wiring harness connector and dust cap (ensuring rubber "o" ring is in place). Ensure bulb is seated correctly in reflector.
5. Re-aim headlights. Detailed procedures for headlight aiming are given in the relevant service manual for your car. However, because headlight aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.

Front park lights (5 watts)

1. Remove dust cap from rear of headlight.
2. Remove park light bulb holder (located next to headlight bulb) by pulling straight out of housing.
3. Remove park light bulb by pulling straight out of holder.
4. Insert new bulb, reinstall holder and dust cap (ensuring rubber "o" ring is in place).

Inboard high beam (55 watts)

1. Open the bonnet. Located on the top of the headlight housing is a dust cap, secured by two screws. Remove the two screws and the dust cap.
2. Disconnect spring retainer and pivot clear of bulb.
3. Pull bulb out far enough to expose electrical lead connector.
4. Disconnect connector and remove bulb assembly.
5. Connect new bulb and electrical lead, install bulb assembly into correct locating notches, reconnect spring retainer. Refit dust cap, ensuring rubber "o" ring is in place.



BULB REPLACEMENT

Front turn signal (21 watts)

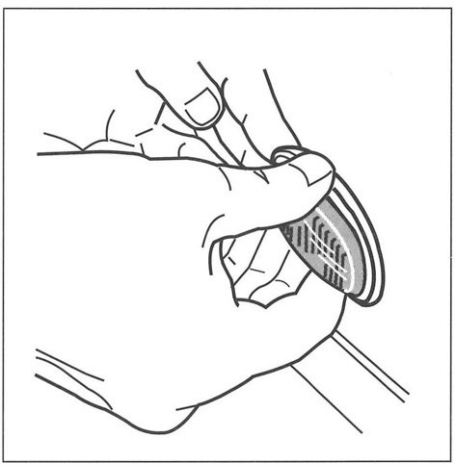
1. Open bonnet. Twist to release bulb holder from behind turn signal assembly.
2. Lightly depress bulb and remove in a twisting motion out of the holder.
3. Insert new bulb and reinstall bulb holder.

Side turn signal (5 watts)

The lens housing is removed by hand. Grasp the lens housing at the rear, push forwards and then pull away from the car body. Separate the bulb holder from the lens assembly by first rotating the bulb holder anti-clockwise.

The bulb pulls straight out of the bulb holder. Insert new bulb into bulb holder. Install bulb holder into lens housing. Note that bulb holder only fits into lens housing in one way. Therefore, keep turning bulb holder clockwise until it fits into place and can be tightened.

When re-inserting the lens housing, first locate the front of the lens into the fender opening before pushing the rear of the lens in towards the car body.



Rear turn signal (21w), stop/tail (21/5w), reverse (21w)

1. Unscrew the four screws and remove the lens.
2. Slightly depress respective bulb and rotate to remove from socket.

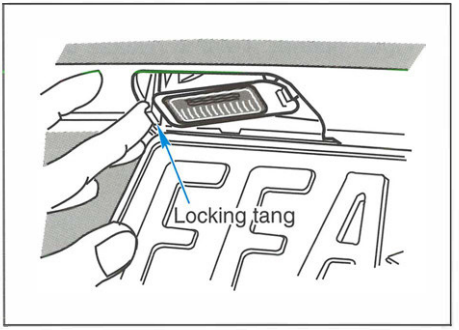
Bulb socket sequence from top downwards is: Turn signal, stop/tail, reverse.

BULB REPLACEMENT

Number plate (5 watts)

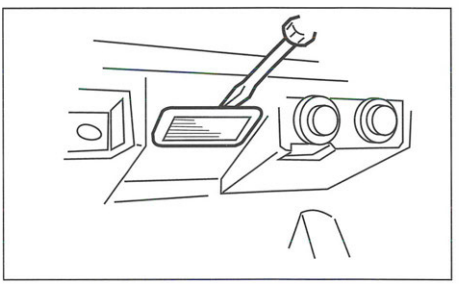
The two number plate bulbs are above the number plate. Push in the tab at the left of the lens housing and pull lens housing down. Turn bulb holder anti-clockwise and remove bulb holder from lens housing. Pull bulb straight out of bulb holder.

Push new bulb into bulb holder, install bulb holder into lens housing. Feed wiring back into cavity. Fit right side of lens housing in boot lid and then push lens housing into place.



Glovebox - (5 watts)

Gently prise away the lens housing with a screwdriver. Pull tab holding bulb (opposite end to wiring) backwards and pull bulb out. To install new bulb, first pull tab backwards. When new bulb is in place feed wiring back into cavity and push lens housing back into place.



Interior dome (10 watts),

With your hand, gently pull down the snap-on lens. The interior dome bulbs can then be pulled straight out by hand. Front reading light bulbs must be pushed in and rotated, before pulling out.

CHAPTER 7

Weekly checks

Page

7-2 Miscellaneous checks
7-2 Service manuals
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MISCELLANEOUS CHECKS

As well as taking your car to be serviced (refer Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

CAUTION: The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, make sure the ignition key is switched OFF, so that the fan cannot start operating.

CAUTION: Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

The following checks should also be regularly done to ensure safety of your car.

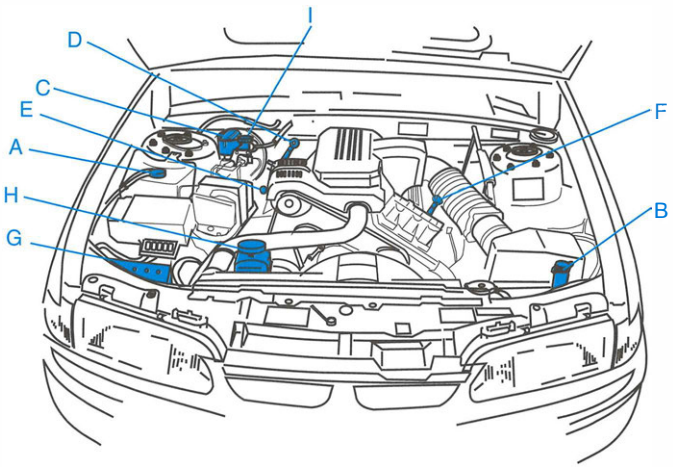
Check:

- that all exterior lights are working and that their appropriate interior indicators light up.
- mirrors and glass are clean and not scratched.
- automatic transmission T-bar indicator correctly lines up next to the gear selected.
- the aim of water on the windscreen or tailgate and condition of the wipers.
- horn works.
- condition and operation of all seat belts and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

Service manuals

Holden also publishes various service manuals which are available from your Dealer.

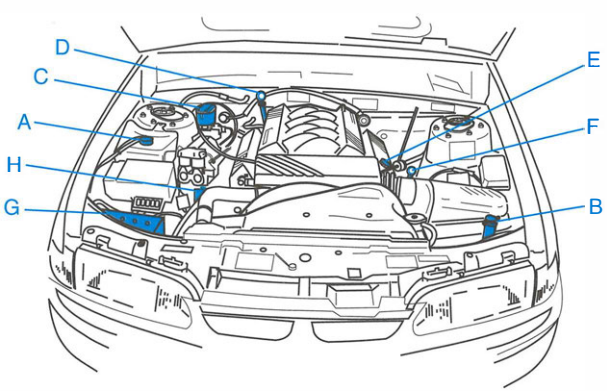
CHECK LOCATIONS



3800 (V6) engine

A Engine coolant ..... page 7-6
B Windscreen washer fluid ..... page 7-8
C Brake fluid ..... page 7-9
D Dipstick for automatic transmission ..... page 7-7
E Engine oil cap ..... page 7-4
F Dipstick for engine oil ..... page 7-4
G Battery ..... page 7-13
H Power steering fluid ..... page 7-10
I Clutch fluid (if fitted) ..... page 7-9

5000 (V8) engine



ENGINE OIL LEVEL

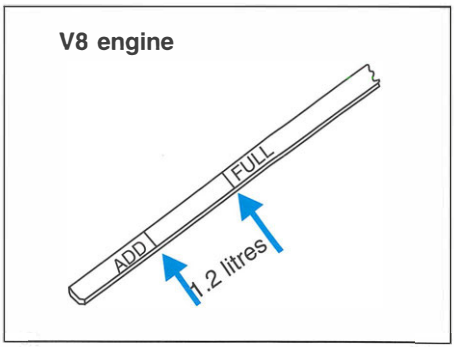
To check the level

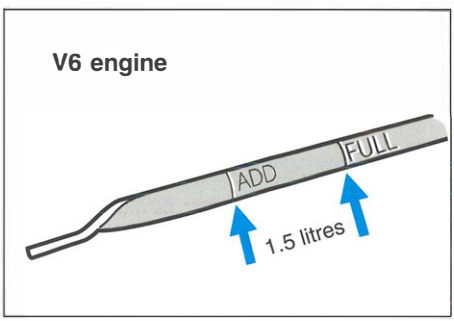
- The oil level should be checked weekly.
- Check the level when the oil is warm, such as when stopping for fuel.
- The car must be on level ground.
- After switching off the ignition wait at least ten minutes for the oil to settle.

The level is checked from the dipstick. Refer to the diagram on page 7-3 for location.

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.

If the level is lower than the ADD mark top up with enough oil to reach the FULL mark. Be careful not to add too much, as the reading should never be over the FULL mark.





To add oil

If the level is below the ADD mark and you need to add oil, use SG or SH grade engine oil 20W/50, or 15W/40 for prolonged use in snow areas.

To add oil, turn the oil cap (refer page 7-3 for location) anti-clockwise and remove. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil.

When correct, screw the cap back on tightly and replace the dipstick. If you check the oil level when the oil is cold do not run the engine first, as the cold oil will not drain back into the oil pan fast enough to give an accurate reading.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will increase costs, may be detrimental to the operation of your car and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your Holden vehicle.

Oil change intervals

The oil must be changed every 10,000km. This is the *maximum* service interval for changing the oil and is based on the average car use of driving 10,000 km in 6 months.

If you have not travelled 10,000 km when 6 months comes up you should have the oil changed anyway, as oil deteriorates over time, not just when driving. Refer Chapter 10 for servicing requirements, particularly *abnormal* driving conditions.

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating critical areas, such as the cylinder walls, pistons, rings and valve stems. These parts are all subjected to high friction loads, and will prematurely wear out without a constant supply of engine oil. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine: worn pistons, rings, valve stems and guides; the way in which the car is operated; the quality and grade of oil; the oil level, and dilution of the oil.

Operation of the car: High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away. The oil level should always be checked prior to towing or a long trip.

Quality and grade of oil: Oil viscosity is a significant factor in oil consumption. If you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

Oil level: Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

Dilution: Probably the most prevalent complaint of oil consumption comes from the driver whose car is frequently driven on short trips where the engine often fails to reach normal operating temperatures. The oil becomes diluted by fuel and moisture that settles in the oil pan. This may raise the oil level creating a false reading on the oil level dipstick. For example, in a car that has accumulated 1,500km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this car is driven for some distance at highway speeds on a warm day, the dilution elements evaporate lowering the oil level. This sudden change in oil level can give the driver the impression that an excessive amount of oil has been "lost" in the highway operation.

Measuring oil consumption: A simple economy test can be performed If the driver is concerned by an apparent drop in the oil level.

Add sufficient oil to bring the level up to the "FULL" mark on the dipstick (avoid overfilling). Take note of the odometer reading and check the oil periodically. When the level reaches the "ADD" mark, carefully measure the amount of oil required to return the level back to "FULL" and note the odometer reading. The amount of oil added for the kilometres travelled over the duration of the test indicates the oil economy of the engine. Remember to check the oil level at the start and finish of the test on level ground and allow time for oil to drain down. Avoid minor top-ups (0.25-0.5 litres) when measuring oil economy, as inaccuracies of oil quantity added, may cloud the result.

If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 10,000 km.

ENGINE COOLANT LEVEL

The coolant level should be checked at least weekly. This is simply a matter of looking at the level in the plastic tank. For ease of location, the coolant cap (and the washer fluid cap) have been coloured yellow, refer page 7-3 for exact location.

When the engine is cold the coolant level should be at or above the *MINIMUM* mark on the plastic coolant tank. After the car has been driven and the engine is at normal operating temperature, the level should be somewhere between half full and the *MAXIMUM* mark.

The LONG LIFE COOLANT in your car conforms to Holden specification number HN 2043. This can be purchased as:

92140054 (1 litre) 92140057 (5 litres) 92140055 (20 litres)

If the plastic coolant tank requires topping up, first pre-mix a solution of 50% LONG LIFE COOLANT and 50% water. Ensure the ignition is switched OFF. Undo the cap on the top of the plastic tank, add the pre-mixed solution and secure the cap.

Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily until the correct Holden long life coolant is obtained as soon as possible from the nearest Holden Dealer.

The specified long life coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point and it protects against freezing down to -37°C, provided the 50% concentration is maintained.

If you regularly have to top up the cooling system you should see your Holden Dealer.

CAUTION:

Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

Do not remove the radiator cap or plastic coolant tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Refer to page 6-8 if engine overheats or loses a lot of coolant.

AUTOMATIC TRANSMISSION LEVEL

The fluid level should be checked monthly, by looking at the fluid level on the dipstick. For ease of finding, the transmission dipstick handle is coloured red. Refer to the diagram on page 7-3 for exact location.

Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid.

The fluid should be checked after the car has been driven for at least 20 kilometres - so that the fluid is warm.

The car must be standing on level ground with the engine running.

The gear shift selector should be in PARK and the park brake applied.

Unclip the handle and remove the dipstick, wipe it clean with a clean cloth or paper and re-insert it fully. Now remove it again and read the fluid level.

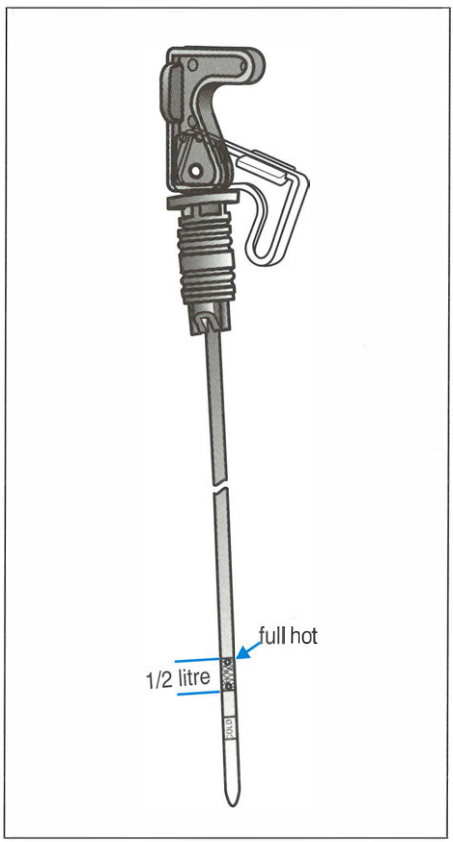
The fluid level should be showing on the cross hatched HOT area.

The level should NEVER read over the FULL HOT mark, so be careful not to add too much.

If adding fluid, use only DEXRON®III AUTOMATIC TRANSMISSION FLUID. Add the fluid in the dipstick tube (the same opening as the dipstick is stored in) and wait one minute for the oil to settle. Again check the level on the dipstick with the engine running and add further fluid if necessary. Remember to always replace the dipstick and lock the handle down.

If fluid has to be added often, there may be a problem or leak and you should see your Holden Dealer.

NOTE: The cold markings on the dipstick should only be used as an indication when initially filling the transmission after the fluid has been completely drained. It should be rechecked when hot.



WASHER FLUID LEVEL

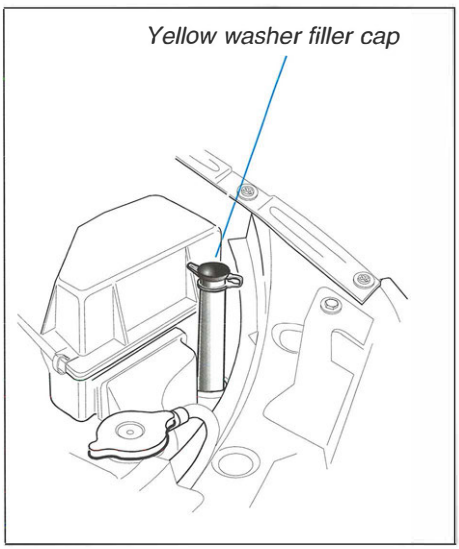
As washer fluid is constantly used the level should be checked weekly and topped up, to capacity.

A blue float inside the washer container makes the fluid level easy to read from the outside.

For a crystal clear windscreen, the correct amount of Optikleen (part number 92140005) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

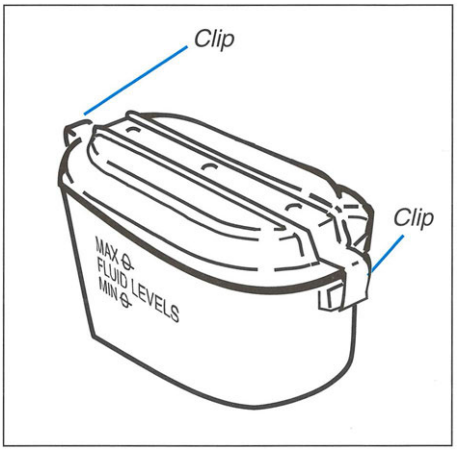
Make sure the cap is secured.

Note that washer jets are not adjustable, and can be damaged if tampered with.



BRAKE AND CLUTCH FLUID LEVELS

Brake fluid level



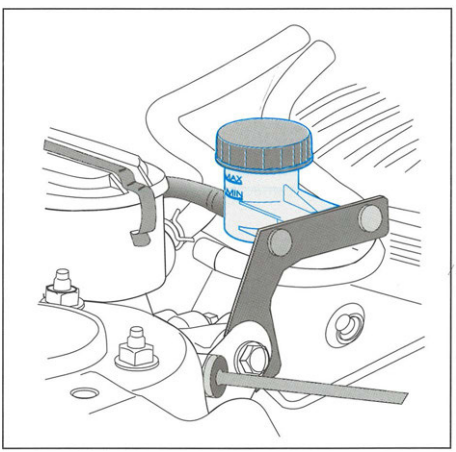
CAUTION: Brake fluid is poisonous and corrosive and will damage the paint finish of your car if spilt.

The brake fluid level in the master cylinder should be checked weekly. The fluid level, is visible through the master cylinder (see page 7-3 for location) and should be maintained between the MIN and MAX level markings. If the fluid is between these levels do not remove the master cylinder cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

If fluid does need to be added, first ensure that the ignition is switched to OFF. Wipe clean the sides of the top cover. Then, unclip and lift off the top cover. Top up with heavy duty brake fluid which meets Holden specification number HN 1796. This can be purchased as Holden part number 92026651. Remember to secure the cap at each end.

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system. If the master cylinder requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.

Clutch fluid level (if fitted)



The clutch fluid level should be checked weekly. The fluid level, is visible through the container and should be maintained between the MIN and MAX level marks. If the fluid is between these levels do not remove the cap, as the fluid will quickly absorb moisture if exposed to the atmosphere .

If fluid does need to be added, first ensure that the ignition is switched OFF.

Wipe clean the sides of the cap and remove the cap. Top up with heavy duty brake fluid (both the clutch system and the brake system use **brake** fluid) which meets Holden specification number HN 1796. Remember to replace the cap.

Use only new fluid. Use of old, used or inferior fluid may endanger the functioning of the clutch system.

If the clutch fluid requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.

POWER STEERING FLUID LEVEL

The level should be checked after the car has been driven for a while (at least 20 minutes) so that the fluid is warm. A convenient time is when stopping for petrol. The cold level check should only be used after the engine has not been running for at least 5 hours. The hot level check, however, is always recommended.

If fluid needs to be added, use DEXRON® III. Do not over fill and remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer.

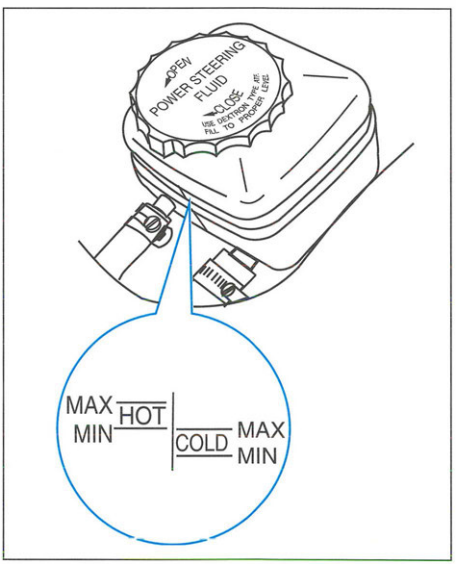
V6 engine

Refer page 7-3 for location of the reservoir.

The fluid level can be viewed through the transparent reservoir. The level markings are on the rear of the reservoir.

When the fluid is cold the level should be between the COLD MIN and MAX marks; when the car has been driven for a while and the fluid is hot the level should be between the HOT MIN and MAX marks.

If fluid must be added, undo the cap anti-clockwise to the safety "stop"; push down on the cap and turn it further anti-clockwise, until the cap can be lifted off.

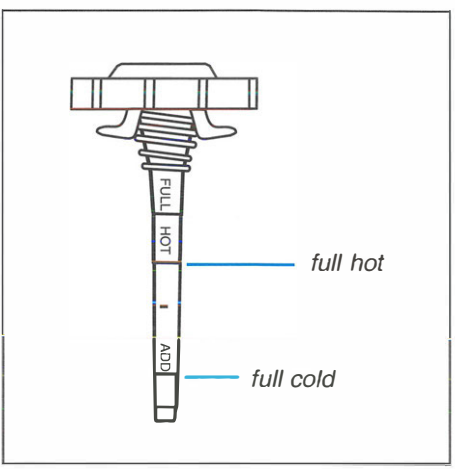


V8 engine

Refer page 7-3 for location of the reservoir. Unscrew and carefully remove the cap on top of the reservoir. The dipstick is attached to the cap.

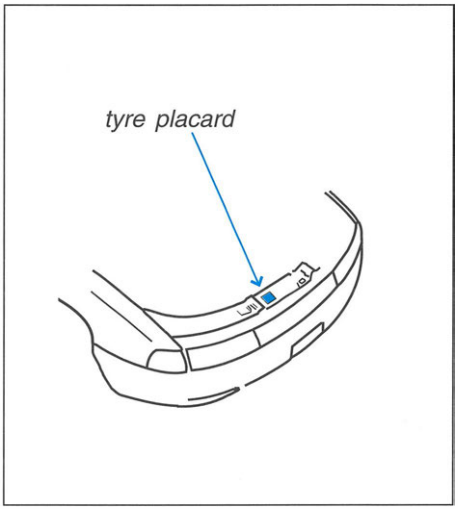
When hot, the fluid level should be maintained at or below the HOT mark.

If checking the level when the car has not been driven for a while, then the level should be at or below the COLD mark.



TYRES

Tyre air pressure



Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

For constant long distance or rough road driving, daily checking is recommended.

The correct pressure for your tyres is shown on the tyre placard.

Tyre inflation pressure increases when the tyres have been driven more than 2km. Therefore, the pressure should be checked when the tyres have been stationary for over 3 hours. If they must be checked while driving allow 10% more pressure.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

Cars driven for prolonged periods over rough roads, particularly in outback conditions, should use the cold tyre inflation pressure recommended for maximum load condition on the tyre placard.

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded will not be able to be driven safely at high speeds. Therefore, their use is not recommended.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the car to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear.

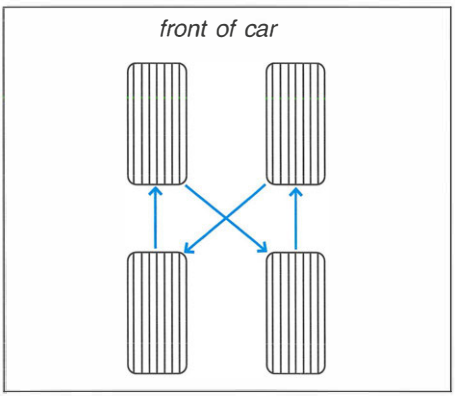
If you suspect either of the above problems exist have a wheel alignment and balance check carried out by your Holden Dealer.

TYRES cont.

Tyre rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures etc.

Tyre condition will be checked for you when you take your car to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.



Replacement and repair

Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your insurance policy. Refer to the tyre placard on your car for tyre size and load rating, see previous page. Using a different size or type of tyre may affect such things as ride, handling, speedometer, car ground clearance, tyre clearance or snow chain clearance.

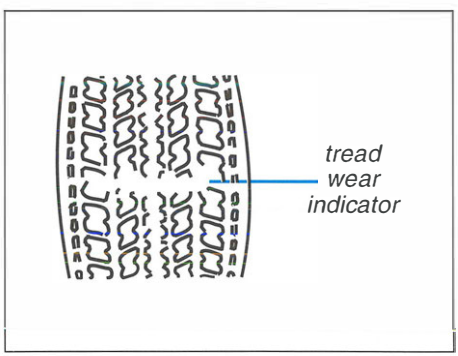
Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your car should be referred to your Holden Dealer.

Tyres with a *higher* speed or load rating are acceptable, provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

- The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to your car have built-in tread indicators. When only 1.5 mm of tread remains, these indicators show as plain bars across the tread pattern at regular intervals around the tyre.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.



BATTERY

The fluid level of the battery will be checked for you when you take your car to be serviced by your Holden Dealer. If your car is operated in hot temperatures or at constant high speed, the battery fluid level should be checked at least twice between the 6 month Dealer Service.

CAUTION:

Batteries emit an explosive gas mixture which may be ignited. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewellery, ring and metal watch bands) near battery terminals.

When checking the battery level, make sure the engine is not running. Each of the six cells must be individually checked. Use distilled water, as required, to keep the level just below the bottom of each split tube. DO NOT OVER FILL.

Refer page 6-10 for emergency starting when the battery is flat.

Battery replacement

Low maintenance, 12 volt 95 min / 400 amp.

Car storage

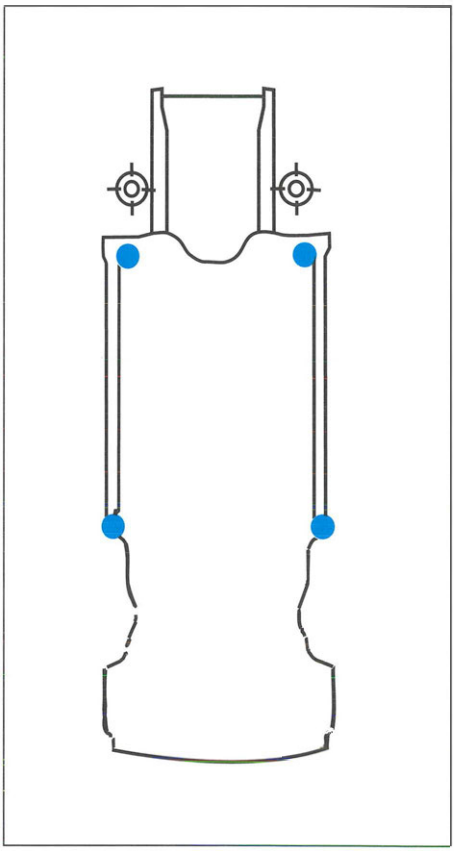
The battery is recharged by the generator when the engine is running. If the engine is not run for approximately 6 weeks the battery will discharge, due to the power required by the security system etc. If the battery is disconnected it will discharge anyway after approximately 12 weeks.

If you do disconnect the battery when leaving the vehicle for a long period of time it is recommended that the battery be "trickle fed" on a battery charger over-night, before replacing it in the car.

TROLLEY JACK LOCATIONS

You should always use the jack locations shown on page 6-6 when using the original jack supplied with your car. This jack has been designed to correctly and safely lift your car, provided the cautions in Chapter 6 are observed.

However, if using a trolley jack to raise the car, it is important that the jack be positioned under the suspension cross member or hoist pad locations. DO NOT JACK UNDER THE SUSPENSION CONTROL ARMS. The car should always be supported by jack stands when raised.



CHAPTER 8

Specifications

Page

8-2 Lubricants
8-2 Power and torque
8-2 Capacities
8-3 Body dimensions
8-4 Identification plates

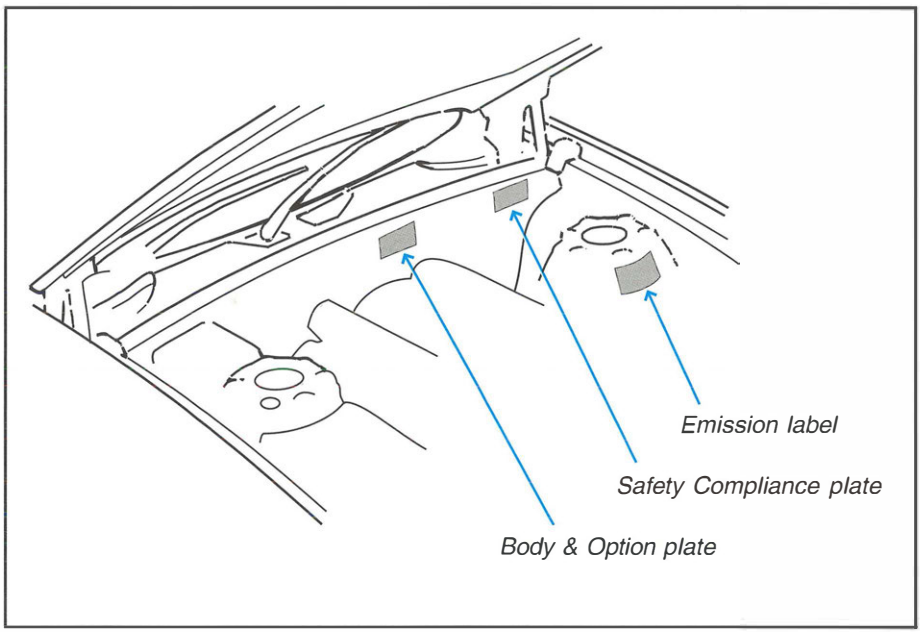
GENERAL SPECIFICATIONS

Engine type		3800 (V6) 6 cylinder, direct fire ignition, port fuel injection	5000 Injection (V8) 8 cylinder port fuel injection
Engine oil	Spec.	Service classification SG or SH. Viscosity grade 20W/50 for normal use, Holden Motor Oil part no M40106 (5 litres) is recommended. For prolonged use in snow areas, the use of 15W/40 is recommended.	
	Service Capacity	4.8 litres approx (incl. filter)	5.1 litres approx. (incl. filter)
Engine	Power	147 kW@5200 rpm	165 kW@4400 rpm (early build) 179 kW@4600 rpm (late build)
	Torque	304 Nm@3600 rpm	385 Nm@3600 rpm (early build) 400 Nm@3600 rpm (late build)
Coolant	Spec.	50% water and 50% long life coolant conforming to Holden specification number HN 2043, part number 92140054 (1 litre) or 92140057 (5 litres). In addition, 3 pellets, part no 92140053 must be added when the coolant is replaced.	50% water and 50% long life coolant conforming to Holden Number HN 2043, part number 92140054 (1 litre) or 92140057 (5 litres)
	Capacity	12 litres, approx.	
Auto trans fluid	Spec.	Dexron ®111	
	Service Capacity	4.8 litres, approx.	5 litres, approx.
Manual transmission fluid		Refer to your Holden Dealer	
Brake fluid spec.		Heavy duty brake fluid, Holden Number HN1796	
Power steering fluid spec.		Dexron ®111	

DIMENSIONS (mm)

Length	4,896
Width	1,794
Height	1,510
Wheel base	2,822
Overhang -front	946
Overhang - rear	1,128
Front track	1,491
Rear track	1,478

IDENTIFICATION LABELS



Body and Option Plate

This plate shows model identification, body serial number, paint and trim colour combination, paint number, engine, transmission, axle ratio options, suspension options (where applicable) and built date. The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

Safety Compliance Plate (Australian cars)

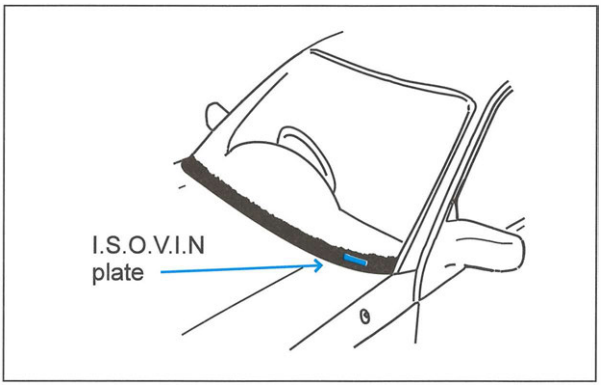
Shown on the plate are the vehicle Make, Model Series, Month and Year of Manufacture, Vehicle Identification Number, approved seating capacity, Gross Vehicle Mass (GVM) on utility and Approval Number.

Emission label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions.

I.S.O.V.I.N.

Each vehicle has its own, individual I.S.O.V.I.N., which is shown on the windscreen of your car.



Example of I.S.O.V.I.N. - refer to the I.S.O.V.I.N. number on your own car.

6 H 8 V S K 8 0 H V L 1 2 3 4 5 6

Sequential production number, also called Holden 'tag' number, e.g. L123456

Model Year Code: S=1995, T=1996, V=1997, W=1998, X=1999, Y=2000

Engine Code: H=3800 (V6), U=5000 Injection (V8)

Body Style Code: 80=Ute

Degree of Luxury: K=Executive

Model Code

World Manufacturer Identifier: 6H8=Holden

CHAPTER 9

After Sales

Page

9-2 New Vehicle Warranty
9-4 Parts and Accessories Warranty
9-5 Warranty questions & answers
9-8 Roadside Assistance
9-10 Customer Assistance
9-11 Authorised Holden Dealers

Note: Dealership names and details may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

New Vehicle Warranty application

This Warranty is given by Holden Ltd. A.C.N. 006 893 232, ("Holden"). The Warranty applies to the vehicle identified on the inside front cover of your Owner's Handbook. It is provided to the original and subsequent owners/operators driving the vehicle within Australia during the Warranty Period.
This warranty is given in addition to all rights conferred by law on that person.
Owners of vehicles operated outside Australia should consult their local dealer about the warranty applicable to their vehicle.

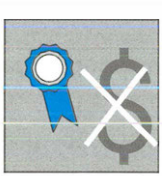
Repairs covered

Subject to the exclusions shown below, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Dealer or Authorised Service Outlet, by repair or at Holden's option by replacement.

Warranty period

Effective 1st January 1997, all new Holden badged passenger and light commercial vehicles delivered to customers will be covered by the Holden New Vehicle Warranty for 3 years or 100,000 km, whichever occurs first.

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Dealer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100,000 kilometres, whichever occurs first.



No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the maintenance schedule in Chapter 12 of your Owner's Handbook for which a charge is payable.

NEW VEHICLE WARRANTY CERTIFICATE cont.

Warranty exclusions

- **Damage**

Your Warranty does not extend to following causes of damage:
Damage caused by an accident, fire, theft or moving objects striking the vehicle.
Damage caused by industrial fallout, chemicals or sealants.
Damage caused by atmospheric fallout or flood, hail, salt, etc.

- **Maintenance items**

Services such as, brake adjustment, replacement of filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

- **Tyres**

The tyres (and tubes where applicable) fitted to your vehicle are not covered by this warranty. However, they may be covered by the tyre manufacturer.

- **Batteries**

Batteries are warranted for 12 months from the commencement date of the warranty.

- **Misuse**

The warranty does not cover damage caused by:

(a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or neglect
(b) operation of the vehicle after the defect is known
(c) failure to carry out proper maintenance services
(d) use of incorrect types and grades of fuel, oil or lubricants
(e) alteration of the vehicle by anyone not authorised by Holden
(f) fitting of parts or accessories not marketed by Holden
(g) any work carried out on the vehicle by anyone except an authorised Holden Dealer or Service Dealer

PARTS AND ACCESSORIES WARRANTY

Holden warrants Holden approved Parts and Accessories ("Parts" and "Accessories") for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option by replacement.

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Dealer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100,000 km, whichever occurs first.

- **Parts and accessories installed after new vehicle delivery by a Holden Dealer or authorised Service outlet**

  Parts and Accessories are covered for 2 years or 50,000km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the later of:

  2 years/50,000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old car would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old car would be covered until the end of 4½ years or a further 50,000km from when the Accessory was installed.

- **Purchased at retail or trade**

  Parts and Accessories purchased at trade or retail and installed by other than a Holden Dealer or authorised Service Dealer are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.

  Batteries are warranted for 12 months from date of purchase.

  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation.

WARRANTY QUESTIONS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

Q 1. How do I go about obtaining Holden Warranty Service?

It is the responsibility of the Selling Dealer to provide Holden Warranty service, therefore you should take your vehicle to the Selling Dealer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or Holden Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden Warranty Service.

Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. The Maintenance Schedules in this handbook specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay for include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 1,500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 1,500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after 5,000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after 1,500 km.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after 1,500 km.
- Door, or bonnet lock adjustments.
- Glass or channei adjustments - after 1,500 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings - after 1,500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

WARRANTY QUESTIONS

Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?

All parts and labour used in carrying out Holden Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden Warranty service is to be carried out by the Servicing Dealer it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden Warranty Service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden Customer Assistance Service (refer page 10 of this chapter) to obtain guidance.

Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden ?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle.

Only the fluids and lubricants referred to in this handbook should be used.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and the Company does not accept any such unauthorised action.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Limited., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of Assist Australia) the AA.

Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your car to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside Ultra Assist which includes accommodation, alternative transport, rental car, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

Can I upgrade to Roadside Ultra assist?

Yes, owners can upgrade to Holden Roadside Ultra Assistance for a fee by dialling 1800 645 668.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it.

Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting the local dealer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the service. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 9646 5466. Outside the Melbourne Metropolitan area, the number is 1800 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both private & business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of this Handbook.
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

AUSTRALIAN HOLDEN DEALERS

N.S.W. Metropolitan

ARNCLIFFE
Suttons Motors Arncliffe P/L
93 Princes Highway
P: (02) 9335 9000 FAX: (02) 9335 9006

ASHFIELD
Muirs Holden
252 Parramatta Road
P: (02) 9798 8888 Fax: (02) 9799 7010

BALGOWLAH
Peninsula Holden
164 Condamine Street
P: (02) 9949 1888 FAX (02) 9949 7237

BANKSTOWN
Princeton Holden
466 Chapel Road
P: (02) 9790 1234 Fax: (02) 9790 0033

BLACKTOWN
West City Holden
120~128 Sunnyholt Road
P: (02) 9622 7333 Fax: (02) 9671 7394

CAMPBELLTOWN
Paul Wakeling Holden
Cnr Blaxland & Campbelltown Rds
P: (046) 281 444 Fax: (046) 283 262

CASTLE HILL
Windsor Road Holden
Cnr Victoria Ave/Windsor Rd
P: (02) 9894 6666 Fax: (02) 9894 5600

CHATSWOOD
Sundell Holden
Cnr Smith & Gibbes Street
P: (02) 9417 8431

CHULLORA
Suttons Motors (Chullora) P/L
Cnr Hume Hwy/Waterloo Rd
P: (02) 9642 0233 Fax: (02) 9642 7798

DEE WHY
Peninsula Holden
Cnr May & Mooramba Roads
P: (02) 9982 1311 Fax: (02) 9982 3755

EAST SYDNEY
Suttons City Holden
137-157 Bourke Street
P: (02) 9357 4222 Fax: (02) 9358 5542

GORDON
Sundell Holden
Cnr Pacific Hwy/McIntyre St
P: (02) 9498 7766 Fax: (02) 9498 2906

HOMEBUSH
Suttons Motors Homebush P/L
112 Parramatta Road
P: (02) 9746 4500 Fax: (02) 9746 7206

LAKEMBA
Fulton Holden Lakemba
817 Canterbury Road
P: (02) 9740 5555 Fax: (02) 9740 5907

LANSVALE
Lansvale Holden
266~284 Hume Highway
P: (02) 9728 7333 Fax: (02) 9726 1085

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

NEWPORT
Newport Car Care Centre
340 Barrenjoey Road
P: (02) 9999 1254

PARRAMATTA
Boyded Holden Parramatta
65 Church Street
P: (02) 9204 6666 Fax: (02) 9635 6346

PENNANT HILLS
Barry Smith Holden
343~355 Pennant Hills Road
P: (02) 9481 8222 Fax: (02) 9484 7475

PENRITH
Penrith City Holden
Cnr Henry St & Macquarie Pl
P: (02) 4732 1966 Fax: (02) 4721 5896

ROCKDALE
Fulton Holden Rockdale
571 Princes Hwy
P: (02) 9567 0321 Fax: (02) 9597 7395

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

RYDE
Hunter Holden
603~605 Victoria Road
P: (02) 9808 9123 Fax: (02) 9809 6592

SPRINGWOOD
Springwood Holden
15 Ferguson Road
P: (02) 4751 1911 Fax: (02) 4751 2481

AUSTRALIAN HOLDEN DEALERS CONT.

ST LEONARDS
Hunter Holden
4 Herbert Street
P: (02) 9906 4044 Fax: (02) 9439 4635

ST. MARY'S
John Young Holden
Cnr Glossop & Harris Streets
P: (02) 9673 2111 Fax: (02) 9673 4932

SUTHERLAND
Greg Ball Holden
499~505 Princes Highway
P: (02) 9545 4811 Fax: (02) 9545 2533

WAITARA
Suttons Motors Waitara P/L
90 Pacific Hwy
P: (02) 9487 2222 Fax: (02) 9489 0009

WINDSOR
Hawkesbury Valley Holden
18 Macquarie Street
P: (02) 4577 4077 Fax: (02) 4577 2592

N.S.W. Country

ARMIDALE
New State Motors
103 Rusden Street
P: (02) 6772 9444 Fax: (02) 6772 5836

BALLINA
Quayside Motors
Pacific Highway
P: (02) 6686 5111 Fax: (02) 6686 8574

BARHAM
Hall's Motors Pty Ltd
44 Noorong Street
P: (03) 5453 2092 Fax: (03) 5453 1064

BATEMAN'S BAY
Surfair Holden
30-32 Orient Street
P: (044) 725 111

BATHURST
Bathurst Holden
54 Durham Street
P: (02) 6331 2077 Fax: (02) 6331 9177

BEGA
Bega Valley Holden
Cnr Upper and Gipps Sts
P: (02) 6492 2333 Fax: (02) 6492 3105

BLAYNEY
Blayney Holden
98 Adelaide Street
P: (02) 6368 2745 Fax: (02) 6368 3257

BOMBALA
Delcott Engineering Pty Ltd
Maybe Street
P: (02) 6458 3341 Fax: (02) 6458 3940

BOOROWA
Boowowa Auto Repairs
40 Marsden Street
P: (063) 853 305

BREWARRINA
Lukas Holden
Bathurst Street
P: (02) 6839 2105 Fax: (02) 6839 2454

BROKEN HILL
Donlee Motors Pty Ltd
Cnr Galena & Rakow Streets
P: (08) 8087 2463 Fax: (08) 8087 7971

CANOWINDRA
Canowindra Motors
Gaskill Street
P: (02) 6344 1105 Fax: (02) 6344 1105

CARDIFF
Brian Kelly Holden
35~39 MacQuarie Road
P: (02) 4954 7733 Fax: (02) 4954 9407

CASINO
Casino Holden
142 Barker Street
P: (02) 66)62 2822 Fax: (02) 6662 2101

CESSNOCK
Geoff Boyd Holden
Cnr Wollombi Road and Darwin Street
P: (02) 4990 3800 Fax: (02) 4991 1544

COBAR
Cobar Holden
Cnr Lewis St & Louth Road
P: (02) 6836 4005 Fax: (02) 6836 3409

COFF'S HARBOUR
Geoff King Holden
Cnr Pacific Hwy and Thompson Road
P: (02) 6652 2288 Fax: (02) 6652 5360

COOMA
Summit Holden
66~70 Sharp Street
P: (02) 6452 1077 Fax: (02) 6452 1142

AUSTRALIAN HOLDEN DEALERS cont.

COONABARABRAN
Coonabarabran Holden
24 Charles Street
P: (02) 6842 1499 Fax: (02) 6842 2473

COONAMBLE
Moody's Motors
37 Aberford Street
P: (02) 6822 1161 Fax: (02) 6822 1624

COOTAMUNDRA
Jenkins Garage
111 Wallendoon Street
P: (02) 6942 2522 Fax: (02) 6942 1493

COWRA
Waugoola Motors Pty Ltd
Kendal Street
P: (02) 6342 1800 Fax: (02) 6342 3614

CROOKWELL
Crookwell Autos
114 Goulburn Street
P: (02) 4832 1433 Fax: (02) 4832 2157

DENILIQUIN
Burchfield Bros & Co
112~114 End Street
P: (03) 5881 2133 Fax: (03) 5881 3322

DORRIGO
Phil Noble Motors
46~48 Hickory Street
P: (02) 6657 2017 Fax: (02) 6657 2217

DUBBO
John Kierath
54 Bourke Street
P: (02) 6882 1011 Fax: (02) 6882 7102

DUNGOG
Turner Holden
248 Dowling Street
P: (02) 4992 1816 Fax: (02) 4992 1833

EDEN
Ron Doyle
113 Princes Highway
P: (02) 6496 1420 Fax: (02) 6496 1467

FINLEY
Riverina Garage Finley
104 Murray Street
P: (03) 5883 1211 Fax: (03) 5883 1638

FORBES
Frank Spice Holden
20~22 Dowling Street
P: (02) 6851 1755 Fax: (02) 6852 2825

GATESHEAD
Brian Kelly Holden
9 Oakdale Road
P: (02) 4920 7000 Fax: (02) 4920 7001

GILGANDRA
Gilgandra Holden
3 Morris Street
P: (02) 6847 1888 Fax: (02) 6847 1277

GLEN INNES
Glen Severn Holden
167 Grey Street
P: (02) 6732 2888 Fax: (02) 6732 3394

GOSFORD
Noble Holden
Pacific Highway
P: (02) 4325 0511 Fax: (02) 4324 1043

GOULBURN
Geissler Motors
279~298 Auburn Street
P: (02) 4821 3744 Fax: (02) 4821 9798

GRAFTON
Ken Casson Holden
37~39 Turf Street
P: (02) 6642 6666 Fax: (02) 6642 6737

GRENFELL
Terry Carroll Motors Pty Ltd
40 Alexandra Street
P: (02) 6343 1522 Fax: (02) 6343 1347

GRIFFITH
Leo Franco Holden
164~166 Yambil Street
P: (02) 6964 2977 Fax: (02) 6962 4916

GUNNEDAH
Namoi Valley Motors
48 Barber Street
P: (02) 6742 0211 Fax: (02) 6742 3842

GUNNING
Bailey's Garage
Yass Street
P: (048) 451 224 Fax: (048) 451 486

HARDEN
Ginty & O'Leary
Cnr Station & Albury Streets
P: (02) 6386 2320 Fax: (02) 6386 2722

HAY
Royce Curtis Motors
168 Lachlan Street
P: (02) 6993 1503 Fax: (02) 6993 2212

AUSTRALIAN HOLDEN DEALERS cont.

HOLBROOK
Lieschke Motors Pty Ltd
78 Albury Street
P: (02) 6036 2244 Fax: (02) 6036 2831

INVERELL
Gaukroger Sales Pty Ltd
Vivian Street
P: (02) 6722 2722 Fax: (02) 6722 1804

JERILDERIE
Jerilderie Motors
Jerilderie Street
P: (03) 5886 1302 Fax: (03) 5886 1734

KANDOS
Chrisfield Holden
11 Angus Street
P: (02) 6379 4204 Fax: (02) 6379 4606

KATOOMBA
Katoomba Holden
136 Great Western Highway
P: (02) 4782 2066 Fax: (02) 4782 6221

KEMPSEY
Thoroughgood Holden
118~132 Belgrave Street
P: (02) 6562 1381 Fax: (02) 6562 1383

KIAMA
Glen Fulton Holden
35~41 Collins Street
P: (02) 4232 1888 Fax: (02) 4232 3062

KYOGLE
O & H Holden
128~134 Summerland Way
P: (02) 6632 1711 Fax: (02) 6632 2552

LEETON
John Ryan Holden
47~51 Pine Avenue
P: (02) 6953 2466 Fax: (02) 6953 6725

LISMORE
John Chant Motors Pty Ltd
21~27 Carrington Street
P: (02) 6621 2601 Fax: (02) 6622 4659

LITHGOW
Lithgow City Holden
255 Main Street
P: (02) 6351 4555 Fax: (02) 6351 4653

MACKSVILLE
Eastland Auto Centre
18~22 Cooper Street
P: (02) 6568 1711 Fax: (02) 6568 1816

MACLEAN
O'Halloran Motors
175 River Street
P: (02) 6645 2844 Fax: (02) 6645 4003

MAITLAND
Heritage Holden
Cnr New England Hwy & Bungaree St
P: (02) 4932 0779 Fax: (02) 4932 0473

MOREE
Keith Haddad Holden
Cnr Boston & Heber Streets
P: (02) 6752 1855 Fax: (02) 6752 1298

MORUYA
Surfair Holden
88 Vulcan Street
P: (02) 4474 2555 Fax: (02) 4474 2129

MOSS VALE
Moss Vale Holden
160~162 Argyle Street
P: (02) 4868 1055 Fax: (02) 4868 3330

MULLUMBIMBY
Tony Carsburg Holden
2 Argyle Street
P: (02) 6684 2066 Fax: (02) 6684 2066

MUDGEE
Ross Granata Motors
32 Sydney Road
P: (02) 6372 1766 Fax: (02) 6372 3735

MURWILLUMBAH
Tweed Motors Murwillumbah
29 Prospero Street
P: (02) 6672 4444 Fax: (02) 6672 5811

MUSWELLBROOK
Upper Hunter Motors Pty Ltd
116 Bridge Street
P: (02) 6543 2577 Fax: (02) 6543 2565

NAMBUCCA HEADS
Nambucca Holden
Mann Street
P: (065) 689 477 Fax: (065) 689 477

NARRABRI
Allan Cooper Holden
181 Maitland Street
P: (02) 6792 3488 Fax: (02) 6792 4750

NARROMINE
Terry Green Holden
45~51 Dandaloo Street
P: (02) 6889 1244 Fax: (02) 6889 2277

AUSTRALIAN HOLDEN DEALERS cont.

NEWCASTLE
Newcastle City Holden
King Street (Cnr Stewart Ave)
P: (02) 4961 5301 Fax: (02) 4961 6485

NOWRA
Glendon Motors Holden
301~313 Princes Highway
P: (02) 4421 0144 Fax: (02) 4423 0854

ORANGE
Canobolas Holden
348 Summer Street
P: (02) 6362 0155 Fax: (02) 6361 3702

PARKES
Broderick Motors Holden
Cnr Mitchell & Clarinda Sts
P: (02) 6862 2266 Fax: (02) 6862 1406

PEAK HILL
S. Leary & Sons Pty Ltd
Mingelo Street
P: (02) 6869 1459 Fax: (02) 6869 1999

PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (02) 6583 1100 Fax: (02) 6584 9508

QUIRINDI
Browning Motors
82 Henry Street
P: (02) 6746 1666 Fax: (02) 6746 1422

SCONE
Upper Hunter Motors (Scone)
100 Liverpool Street
P: (065) 451 355

SINGLETON
Lancaster Holden
80 John Street
P: (02) 6578 8700 Fax: (02) 6578 8733

TAMWORTH
Kensell's Holden
Cnr Bourke St & Kable Ave
P: (02) 6766 6699 Fax: (02) 6766 7339

TAREE
Hardes Holden
21~25 Victoria Street
P: (02) 6552 2222 Fax: (02) 6552 1269

TEMORA
Rod Lovering Holden
607-608 Stockinbingal Road
P: (02) 6977 2255 Fax: (02) 6977 2033

TENTERFIELD
Sexton & Green (Sales & Service) P/L
148 Rouse Street
P: (02) 6736 1855 Fax: (02) 6736 1946

TUNCURRY
Great Lakes Holden
144 Manning Street
P: (065) 556 644

TWEED HEADS
Tweed Motors Pty Ltd
75~79 Pacific Highway
P: (075) 363 411 Fax: (075) 364 490

ULLADULLA
Alan May Holden
169 Princes Highway
P: (02) 4455 1166 Fax: (02) 4455 4122

WAGGA WAGGA
Wagga Motors Pty Ltd
32 Dobney Avenue
P: (02) 6925 3411 Fax: (02) 6925 3283

WALCHA
Bowden's Garage Pty Ltd
Derby Street
P: (02) 6777 2226 Fax: (02) 6777 2319

WALGETT
Walgett Garage Pty Ltd
81 Wee Waa Street
P: (02) 6828 1088 Fax: (02) 6828 1198

WALLA WALLA
D.E. Lieschke & Son Pty Ltd
63 Commercial Road
P: (02) 6029 2202 Fax: (02) 6029 2134

WARIALDA
Roger Moore
Hope Street
P: (02) 6729 1570 Fax: (02) 6729 1104

WARILLA
Wilson's Holden
29 Shellharbour Road
P: (02) 4295 1223 Fax: (02) 4296 1007

WARREN
Fuller Bros
Dubbo Street
P: (02) 6847 4978 Fax: (02) 6847 4477

WEE WAA
Allan Cooper Holden
Rose Street
P: (067) 954 255

AUSTRALIAN HOLDEN DEALERS cont.

WELLINGTON
Gersbach's Garage Pty Ltd
92 Lee Street
P: (02) 6845 2733 Fax: (02) 6845 3236

WEST WYALONG
West Wyalong Motors
183 Main Street
P: (02) 6972 2388 Fax: (02) 6972 2570

WOLLONGONG
Dwyers City Holden
31~33 Crown Street
P: (02) 4229 9222 Fax: (02) 4229 5105

WYONG
Barry Robertson Holden
172 Pacific Highway
P: (02) 4351 2588 Fax: (02) 4352 1759

YASS
Bill Nesbitt Holden
221 Comur Street
P: (02) 6226 1866 Fax: (02) 6226 1747

YOUNG
Harden & Geelan Holden
48 Boorowa Street
P: (02) 6382 1155 Fax: (02) 6382 4673

A.C.T.

BELCONNEN
Gerald Slaven Holden
Josephson Street
P: (02) 6251 5111 Fax: (02) 6253 1298

BRADDON
Rolfe Holden
44 Mort Street
P: (02) 6248 7888 Fax: (02) 6257 1328

PHILLIP
Commonwealth Motors Pty Ltd
158 Melrose Drive
P: (02) 6282 3522 Fax: (02) 6282 5214

Tas.

BURNIE
Motors Burnie
Marine Terrace
P: (03) 6431 1122 Fax: (03) 6431 3146

DEVONPORT
Motors Devonport
Victoria Parade
P: (03) 6424 4033 Fax: (03) 6424 5249

HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6220 1171 Fax: (03) 6223 8117

KING ISLAND
King Island Motors Pty Ltd
Netherby Road, Currie
P: (03) 6462 1155 Fax: (03) 6462 1488

LAUNCESTON
Motors Launceston
93~95 Elizabeth Street
P: (03) 6332 9101 Fax: (03) 6334 5245

SMITHTON
Motors Smithton
Cnr Nelson & Gibson Street
P: (03) 6452 1241 Fax: (03) 6452 3123

ULVERSTONE
Motors Ulverston
97~101 Reibey Street
P: (03) 6425 2277 Fax: (03) 6425 2610

Vic. Metropolitan

BERWICK
Barry Bourke Holden
755 Princes Highway
P: (03) 9707 2222 Fax: (03) 9707 3091

BUNDOORA
Watson Holden
413 Grimshaw Street
P: (03) 9467 4677 Fax: (03) 9467 5744

BURWOOD
Penfold Holden
142 Burwood Highway
P: (03) 9268 1333 Fax: (03) 9268 1335

CHELSEA
Harrison Holden
370 Nepean Highway
P: (03) 9772 2233 Fax: (03) 9772 2190

CHELTENHAM
Booran Holden
1212 Nepean Highway
P: (03) 9584 3333 Fax: (03) 9584 4285

DANDENONG
Booran Holden
17 Lonsdale Street
P: (03) 9794 5455 Fax: (03) 9793 7001

DONCASTER
Doncaster Holden
636~640 Doncaster Road
P: (03) 9840 0188 Fax: (03) 9840 2587

AUSTRALIAN HOLDEN DEALERS cont.

ELSTERNWICK
Reg Hunt Holden
63 Nepean Highway
P: (03) 9528 2222 Fax: (03) 9528 1088

ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754

FAWKNER
Mantello Holden
1263 Sydney Road
P: (03) 9359 1333 Fax: (03) 9359 9334

FERNTREE GULLY
Ferntree Gully Holden
980 Burwood Highway
P: (03) 9758 2222 Fax: (03) 9758 3435

FOOTSCRAY
Alan Mance Holden
435 Barkly Street
P: (03) 9687 4222 Fax: (03) 9687 7529

FRANKSTON
Bay City Holden
140 Dandenong Road
P: (03) 9784 4444 Fax: (03) 9784 4419

GEELONG
R & B Smith Holden
510 Moorabool Street
P: (03) 5222 2888 Fax: (03) 5221 3114

GEELONG
Winter & Taylor (Sales) P/L
23 Cavendish Street
P: (03) 5222 1811 Fax: (03) 5221 1873

GLENHUNTLY
Booran Holden
1234 Glenhuntly Road
P: (03) 9571 9313 Fax: (03) 9571 8374

GLEN WAVERLEY
Geoff Brady Holden
565~577 Springvale Road
P: (03) 9550 5888 Fax: (03) 9550 5855

LILYDALE
Heritage Holden
344 Main Street
P: (03) 9735 5566 Fax: (03) 9735 1040

MELTON
Alan Mance Holden
1 Holland Drive
(03) 9746 9666 Fax: (03) 9746 9555

MORNINGTON
John Collins Holden
976 Nepean Highway
P: (03) 5975 4433 Fax: (03) 5975 4720

OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691

PRESTON
Ralph D'Silva Holden
573~603 High Street
P: (03) 9471 0500 Fax: (03) 9478 4210

RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113

SOUTH MELBOURNE
South City Holden
380 City Road
P: (03) 9627 3333 Fax: (03) 9686 5836

SOUTH YARRA
Penfold Holden
681 Chapel Street
P: (03) 9827 2272 Fax: (03) 9826 5328

SUNBURY
Sunbury Holden
93~95 Horne Street
P: (03) 9740 3000 Fax: (03) 9740 4777

SUNSHINE
Kevin Dennis Holden
272 Ballarat Road
P: (03) 9292 9292 Fax: (03) 9292 9200

WERRIBEE
Ballan Holden
56 Princes Highway
P: (03) 9741 2222 Fax: (03) 9742 3797

WEST MELBOURNE
Reg Hunt Holden
577 King Street
P: (03) 9329 6611 Fax: (03) 9329 1550

Vic. Country

ALEXANDRA
GK & JH Radford
79 Greints Street
P: (03) 5722 1588 Fax: (03) 5722 1978

ARARAT
David Reid Motors
High Street
P: (03) 5352 4100 Fax: (03) 5352 4388

AUSTRALIAN HOLDEN DEALERS cont.

BAIRNSDALE
The Big Garage
199 Main Street
P: (03) 5152 4131 Fax: (03) 5152 5313

BALLARAT
Peter Amor Motors
211 Gillies Street
P: (03) 5339 9333 Fax: (03) 5339 9202

BENALLA
Arnott's Motors
88~90 Bridge Street
P: (03) 5762 2500 Fax: (03) 5762 1586

BENDIGO
Ron Poyser Holden
Cnr High & Myrtle Streets
P: (03) 5442 3999 Fax: (03) 5442 7766

BIRCHIP
R.L. & C.J. Bales
38 Cumming Avenue
P: (03) 5492 2543

BOORT
Jaron Motors
55 Godfrey Street
P: (034) 552 008 Fax: (034) 552 008

CAMPERDOWN
Camperdown Auto Parts
96 Manifold Street
P: (03) 5593 1983 Fax: (03) 5593 1979

CASTERTON
Coxons Holden
139 Henty Street
P: (03) 5581 1166 Fax: (03) 5581 2116

CHARLTON
K.V. Charlton
70 High Street
P: (03) 5491 1444 Fax: (03) 5491 1984

COBRAM
Neville Mustica Motors
Murray Valley Hwy
P: (03) 5872 1666 Fax: (03) 5872 1920

COHUNA
Hare Motors Holden
105~107 King George Street
P: (03) 5456 4488 Fax: (03) 5456 4448

COLAC
Parker Bros. Motor Co
224 Murray Street
P: (03) 5231 5533 Fax: (03) 5231 3853

DAYLESFORD
K.R. Little
Vincent Street
P: (03) 5348 2248

DIMBOOLA
Westerfield Motors Pty Ltd
64 Lloyd Street
P: (03) 5389 1302

DONALD
O.A. Shilton & Sons Pty Ltd
5 Woods Street
P: (03) 5497 1400 Fax: (03) 5497 1505

ECHUCA
Echuca Motors
1 Nothern Highway
P: (03) 5482 1522 Fax: (03) 5480 6215

FOSTER
Ray Dower Motors
78 Main Street
P: (03) 5682 2404

HAMILTON
Peter Sandow Motors Pty Ltd
210 Gray Street
P: (03) 5572 1433 Fax: (03) 5571 1182

HOPETOUN
Hopetoun Motors
78 Lascelles Street
P: (03) 5083 3143 Fax: (03) 5083 3290

HORSHAM
Ivan Morrow Motors Pty Ltd
22 O'Callaghans Street
P: (03) 5382 0185 Fax: (03) 5382 0459

KANIVA
Kaniva Motors
82 Commercial Street
P: (03) 5392 2300 Fax: (03) 5392 2589

KOO WEE RUP
G & J Light Mechanical repairs P/L
Station Road
P: (03) 5997 1325

KORUMBURRA
Peter Dunlevie Holden
42 Commercial Street
P: (03) 5655 1288 Fax: (03) 5655 1839

KYABRAM
D'Alberto Holden
60 McEwen Road
P: (03) 5852 1366 Fax: (03) 5852 1337

AUSTRALIAN HOLDEN DEALERS cont.

KYNETON
Mollison Motors Pty Ltd
167 Mollison Street
P: (03) 5422 3377 Fax: (03) 5422 3501

LEONGATHA
Gleeson Holden
37~43 Bair Street
P: (03) 5662 2361 Fax: (03) 5662 3393

MANSFIELD
Martin's Garage
52~54 Chenery Street
P: (03) 5775 2610 Fax: (03) 5775 1179

MARYBOROUGH
Graham Jacka Holden
35 Nolan Street
P: (03) 5461 1011 Fax: (03) 5461 4789

MILDURA
Stuart & Harrison (Sales) Pty Ltd
24~32 Deakin Avenue
P: (03) 5023 0051 Fax: (03) 5021 3076

MORTLAKE
W. Christian (Mortlake) Pty Ltd
107 Dunlop Street
P: (03) 5599 2301 Fax: (03) 5599 2567

MURRAYVILLE
Peers Motors
McKenzie Street
P: (03) 5095 2081 Fax: (03) 5095 2054

NATHALIA
BHB Motors
6 Blake Street
P: (03) 5866 2660

NHILL
Ivan Morrow Motors Pty Ltd
71~73 Nelson Street
P: (03) 5391 1333 Fax: (03) 5391 1228

NULLAWIL
Nullawil Motors & General Engineers
Calder Highway
P: (03) 5493 5210 Fax: (03) 5493 5210

ORBOST
Merlin Motors
Stanley Street
P: (03) 5154 1909

PORTLAND
Reynolds Holden
Henty Highway
P: (03) 5523 1688 Fax: (03) 5523 6299

QUAMBATOOK
Quambatook Auto Services
32 Gutherie Street
P: (03) 5457 1237 Fax: (03) 5457 1420

ROCHESTER
Bruce Hocking Motors Pty Ltd
71 Moore Street
P: (03) 5484 1455 Fax: (03) 5484 1140

ROBINVALE
Stuart & Harrison (Sales) Pty Ltd
cnr Herbert & George Sts
P: (03) 5026 3305

RUTHERGLEN
Jasper Bros Pty Ltd
62 Main Street
P: (02) 6032 8404 Fax: (02) 6032 8156

SALE
Sam Gould Holden
273 York Street
P: (03) 5144 3944 Fax: (03) 5144 6289

SEALAKE
Paddy Smith Holden
Calder Highway
P: (03) 5070 1147

SEYMOUR
Neil Beer Holden
49 Emily Street
P: (03) 5792 2777 Fax: (03) 5792 4111

SHEPPARTON
Parker Bros. Auto Co.
Benalla Road
P: (03) 5821 9811 Fax: (03) 5831 1021

STAWELL
Howden Holden
72~76 Longfield Street
P: (03) 5358 1888 Fax: (03) 5358 3954

SWAN HILL
Swan Hill Holden
94~102 Campbell Street
P: (03) 5033 1800 Fax: (03) 5032 2468

TALLANGATTA
Crispin Motors
21 Towong Street
P: (02) 6071 2414 Fax: (02) 6071 2655

TIMBOON
Timboon Motors
56 Bailey Street
P: (03) 5598 3007 Fax: (03) 5598 3362

AUSTRALIAN HOLDEN DEALERS cont.

TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5174 8000 Fax: (03) 5175 0050

UNDERBOOL
A.J. Gloster & Sons
Cotter Street
P: (03) 5094 6291 Fax: (03) 5094 6297

WANGARATTA
Alan Capp (New Cars) Pty Ltd
29 Tone Road
P: (03) 5721 2133 Fax: (03) 5721 4626

WARRACKNABEAL
Amor Motors Aubrey Truck Sales
33 Woolcock Street
P: (03) 5394 1055 Fax: (03) 5398 1904

WARRAGUL
Vin Rowe Holden
3 Endeavour Street
P: (03) 5623 1362 Fax: (03) 5623 4314

WARRNAMBOOL
Callaghan Motors Pty Ltd
133~137 Fairy Street
P: (03) 5562 3711 Fax: (03) 5562 7415

WODONGA
McRae White Motors
182 Melbourne Road
P: (02) 6056 2333 Fax: (02) 6024 7899

WONTHAGGI
J.P. Holden
2 Murray Street
P: (03) 5672 1122 Fax: (03) 5672 4141

YARRAM
John Palmer Holden
150 Commercial Road
P: (03) 5182 5122 Fax: (03) 5182 6166

YARRAWONGA
Pigdons Pty Ltd
155 Belmore Street
P: (03) 5743 1577 Fax: (03) 5744 1788

Qld. Metropolitan

ASPLEY
Zupps Aspley Pty Ltd
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3263 7036

CAPALABA
Oldfield Holden
103 Redland Bay Road
P: (07) 3245 2200 Fax: (07) 3245 2221

INDOOROOPILLY
Westpoint Holden
440 Moggill Road
P: (07) 3378 6622 Fax: (07) 3878 1340

IPSWICH
Ross Llewellyn Holden
246 Brisbane Road
P: (07) 3282 2922 Fax: (07) 3282 6359

LAIDLEY
Buhse's Garage
5 Spicer Street
P: (07) 5465 1406 Fax: (07) 5465 1706

MOOROOKA
John Sivyer Holden
1060 Ipswich Road
P: (07) 3892 3344 Fax: (07) 3848 7816

MT. GRAVATT
Zupps Motors Pty Ltd
1310 Logan Road
P: (07) 3877 0000 Fax: (07) 3877 0066

NEWSTEAD
Eagers Retail Pty Ltd
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1099

PETRIE
Village Motors
1059 Gympie Road
P: (07) 3285 2244 Fax: (07) 3285 1975

REDCLIFFE
Village Holden
425 Elizabeth Avenue
P: (07) 3284 7344 Fax: (07) 3883 2711

SPRINGWOOD
Motorama Holden
3455 Pacific Highway
P: (07) 3804 4888 Fax: (07) 3208 7018

WINDSOR
Leach Holden
143 Newmarket Road
P: (07) 3357 6711 Fax: (07) 3357 5403

WOOLLOONGABBA
Armstrong Holden
73 Ipswich Road
P: (07) 3891 5522 Fax: (07) 3891 5146

WYNNUM
Doug Barton Holden
200 Tingal Road
P: (07) 3396 7777 Fax: (07) 3393 3593

AUSTRALIAN HOLDEN DEALERS cont.

Qld. Country

ATHERTON
Redding Motors Pty Ltd
2 Cook Street
P: (07) 4091 1344 Fax: (07) 4091 2039

AYR
Honeycombes Sales & Service
213~217 Queen Street
P: (07) 4783 2344 Fax: (07) 4783 2079

BEAUDESERT
Lawson Holden
57 Brisbane Street
P: (07) 5541 2000 Fax: (07) 5541 3368

BOWEN
McDermott Holden
98 Herbert Street
P: (07) 4786 1430 Fax: (07) 4786 2903

BUNDABERG
Ross Gray Holden
Takalvan Street
P: (07) 4150 1333 Fax: (07) 4150 1318

CABOOLTURE
Beecham Holden
Bribie Island Road
P: (07) 5495 1477 Fax: (07) 5495 2839

CAIRNS
Ireland Holden
227~233 Mulgrave Road
P: (07) 4052 3666 Fax: (07) 4052 3606

CALOUNDRA
Caloundra City Holden
45 Caloundra Road
P: (07) 5491 5522 Fax: (07) 5491 8016

CHARLEVILLE
Alan Dobbin Holden
129 Alfred Street
P: (07) 4654 1737 Fax: (07) 4654 3254

CHARTERS TOWERS
Peters Holden
57 Mosman Street
P: (07) 4787 1177 Fax: (07) 4787 4858

CHINCHILLA
Ainsworth Motors & Machinery Pty Ltd
55 Chinchilla Street
P: (07) 4662 7286 Fax: (07) 4662 7197

CROWS NEST
Dennis Nissen Motors
14 William Street
P: (07) 4698 1300 Fax: (07) 4698 1495

DALBY
Johnson's Holden
36 Drayton Street
P: (07) 4662 2422 Fax: (07) 4662 4311

EMERALD
Orion Holden
Hospital Road
P: (07) 4980 7622 Fax: (07) 4982 2791

GATTON
Gatton Auto Centre
67 Railway Street
P: (07) 5462 1633 Fax: (07) 5462 1980

GLADSTONE
Andersons Auto City
56 Yarroon Street
P: (07) 4972 1177 Fax: (07) 4972 9141

GOONDIWINDI
Carpro
Cnr Lagoon & West Streets
P: (07) 4671 2170 Fax: (07) 4671 2013

GYMPIE
Madills
35 Mellor Street
P: (07) 5482 2522 Fax: (07) 5482 2672

HERVEY BAY
Whitaker Motor World
96 Torqyay Road
P: (07) 1281 722

INGHAM
Devietti Holden
99 Lannercost Street
P: (07) 4776 1599 Fax: (07) 4776 3547

INNISFAIL
I.C. Taylor Pty Ltd
117 Edith Street
P: (07) 4061 1577 Fax: (07) 4061 3963

JULIA CREEK
Julia Creek Motors Pty Ltd
Burke Street
P: (07) 4746 7155 Fax: (07) 4746 7197

KILCOY
Hobart's Garage
58 Mary Street
P: (07) 5497 1204 Fax: (07) 5497 1204

KINGAROY
John Dundas Pty Ltd
38 King Street
P: (07) 4162 1722 Fax: (07) 4162 3756

AUSTRALIAN HOLDEN DEALERS cont.

LONGREACH
Longreach Motors
33 Swan Street
P: (07) 4658 1700 Fax: (07) 4658 1857

MACKAY
Pioneer Holden
Cnr Gordon & Wellington Streets
P: (07) 4969 4299 Fax: (07) 4969 4288

MAROOCHYDORE
Sunco Holden
Wises Road
P: (07) 5443 7644 Fax: (07) 5443 7645

MARYBOROUGH
Whitaker Holden
109~111 March Street
P: (07) 4122 2255 Fax: (07) 4123 1912

MOUNT ISA
Barkly Motors Pty Ltd
Marian Street
P: (07) 4743 3044 Fax: (07) 4743 8466

MURGON
Clifton Motors
Macalister Street
P: (07) 4168 1066 Fax: (07) 4168 1947

NAMBOUR
Kallenbach Motors
139 Howard Street
P: (07) 5441 3099 Fax: (07) 5441 3105

NANANGO
Nanango Motors Pty Ltd
102 Drayton Street
P: (07) 4163 1108 Fax: (07) 4163 1108

NOOSAVILLE
Madills Noosa
Lot 1 Lionel Donovan Drive
P: (07) 5449 7900 Fax: (07) 5474 3838

PROSERPINE
Crossley Car Sales Whitsunday Pty Ltd
162~164 Main Street
P: (07) 4945 1822 Fax: (07) 4945 2022

ROBINA
Smith's Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072

ROCKHAMPTON
Lawrence's
327 Richardson Road
P: (07) 4930 5111 Fax: (07) 4930 5112

ROMA
Maranoa Multi Agencies
Bowen Street
P: (07) 4622 2900 Fax: (07) 4622 1832

SOUTHPORT
Lockhart Holden
Cnr Nerang Road & Olsen Avenue
P: (07) 5597 2900 Fax: (07) 5597 2542

SPRINGSURE
Springsure Motors
Eclipse Street
P: (07) 4984 1177 Fax: (07) 4984 1361

ST. GEORGE
Halpin Motors
39~41 Grey Street
P: (07) 4625 5466 Fax: (07) 4625 5855

STANTHORPE
Central Motors
42 Maryland Street
P: (07) 4681 2200 Fax: (07) 4681 1479

TOOWOOMBA
Toowoomba Holden
Cnr James & Hume Streets
P: (07) 4690 0900 Fax: (07) 4690 0909

TOWNSVILLE
Tony Ireland Holden
87~91 Charters Towers Road
P: (07) 4726 7777 Fax: (07) 4721 1486

TULLY
Island Coast Holden
12 Richardson Street
P: (07) 4068 1288 Fax: (07) 4068 2145

WARWICK
Deighton Motors Pty Ltd
Grafton Street
P: (07) 4661 2266 Fax: (07) 4661 1275

N.T.

ALICE SPRINGS
Kittles Holden
Cnr Wills & Railway Terrace
P: (08) 8952 1155 Fax: (08) 8953 1556

DARWIN
Kerry Holden
21~25 Stuart Highway
P: (08) 8980 8080 Fax: (08) 8980 8081

KATHERINE
Kittles Holden
441 Victoria Highway
P: (08) 8972 1788 Fax: (08) 8971 0209

AUSTRALIAN HOLDEN DEALERS cont.

TENNANT CREEK
Kittles Holden
Paterson Street
P: (08) 8962 2251 Fax: (08) 8962 2527

S.A. Metropolitan

ADELAIDE
City Holden
223 Grenfell Street
P: (08) 8223 7666 Fax: (08) 232 0718

ELIZABETH
Peter Page Holden
Elizabeth Way
P: (08) 8255 1288 Fax: (08) 8255 9260

MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057

PORT ADELAIDE
Smiths of Port Adelaide
271 Commercial Road
P: (08) 8447 3855 Fax: (08) 84473 978

REYNELLA
Southgate Holden
49~59 Main South Road
P: (08) 8381 9555 Fax: (08) 8381 6274

SOMERTON PARK
Hamilton Holden
278~288 Brighton Road
P: (08) 8296 4866 Fax: (08) 8296 7112

THEBARTON
Metro Holden
1 Port Road
P: (08) 8354 9555 Fax: (08) 8443 6855

VALLEY VIEW
Plaza Holden
817~839 North East Road
P: (08) 8263 4922 Fax: (08) 8265 5200

S.A. Country

BALAKLAVA
Balaklava Motors
4 Wallace Street
P: (08) 8862 1030 Fax: (08) 8862 2000

BERRI
Rosenthal Bros Pty Ltd
Vaughan Terrace
P: (08) 8582 3644 Fax: (08) 8582 3515

BORDERTOWN
Farmer's Centre
South Terrace
P: (087) 520 266

CEDUNA
Beck Motors Pty Ltd
Poynton Street
P: (08) 8625 2616 Fax: (08) 8625 3201

CLARE
Mid North Motor Company
7 Old North Road
P: (08) 8842 2200 Fax: (08) 8842 2886

CLEVE
Herbert Motors Pty Ltd
Rudall Road
P: (08) 8628 2150 Fax: (08) 8628 2537

CUMMINS
Trigg & Wedd
3 Umlauf Street
P: (086) 762 105 Fax: (086) 762 303

CRYSTAL BROOK
Crouch Rural Pty. Ltd
26 Brandis Street
P: (08) 8636 2257 Fax: (08) 8636 2088

GAWLER
Steinborner Holden
Cnr Murray & Bridge Sts
P: (08) 8522 4222 Fax: (08) 85) 8522 4898

KADINA
J.H. Rosewarne Pty Ltd
Graves Street
P: (08) 8821 1111 Fax: (08) 8821 1686

KEITH
Farmers Centre
McBain Street
P: (08) 8755 3222 Fax: (08) 8755 3211

KINGSCOTE
Roberts Motors
Telegraph Road
P: (084) 822 021 Fax: (084) 822 853

KIMBA
R.J. Flavel Mechanical Repairs
30 High Street
P: (086) 272 555 Fax: (086) 272 044

KINGSTON
Lecornu's Service Garage
Agnes Street
P: (08) 8767 2424 Fax: (08) 8767 2533

AUSTRALIAN HOLDEN DEALERS cont.

LOXTON
Flight Motors Pty Ltd
Bookpurnong Terrace
P: (08) 8584 7277 Fax: (08) 8584 5937

MINLATON
Southway
9 Fifth Street
P: (08) 8853 2322 Fax: (08) 8853 2451

MAITLAND
Maitland Motors Pty Ltd
58 Robert Street
P: (08) 8832 2601 Fax: (08) 8832 2673

MENINGIE
Peter Hood Holden
Cnr Princes Highway & Coonalpyn Road
P: (08) 8575 1109 Fax: (08) 8575 1537

MILLICENT
O G R Millicent
98 George Street
P: (08) 8733 3488 Fax (08) 8733 3112

MT. BARKER
Gilbert Motors
57 Adelaide Road
P: (08) 8391 1500 Fax: (08) 8398 2124

MT. GAMBIER
O.G. Roberts & Co
Jubilee Highway West
P: (08) 8725 6788 Fax: (08) 8723 0636

MURRAY BRIDGE
Dutton Motors Pty Ltd
7 Adelaide Road
P: (08) 8532 1999 Fax: (08) 8531 0599

NARACOORTE
Kingcraig Motors Pty Ltd
158~164 Smith Street
P: (08) 8762 1555 Fax: (08) 8762 1806

PORT AUGUSTA
Hayes Augusta Motor Company
38 Stirling Road
P: (08) 8641 0488 Fax: (08) 8642 4300

PORT LINCOLN
City Motors
King Street
P: (08) 8682 1100 Fax: (08) 8682 4734

PORT PIRIE
Spencer Holden
50 Ellen Street
P: (08) 8632 3888 Fax: (08) 8632 6405

RENMARK
Rosenthal Motors Pty Ltd
Ral Ral Avenue
P: (08) 8586 6626 Fax: (08) 8586 4040

ROXBY DOWNS
Augusta Motor Co.
10 Gosse Street
P: (086) 710 100 Fax: (086) 710 950

STRATHALBYN
Gilbert Holden Strathalbyn
High Street
P: (08) 8536 2066 Fax: (08) 8536 2672

TANUNDA
Hage & Co Pty Ltd
50 Murray Street
P: (08) 8563 2123 Fax: (08) 8563 3488

VICTOR HARBOR
Southern Motors Holden
5 Victoria Street
P: (08) 8552 1255 Fax: (08) 8555 2788

WAIKERIE
Riverside Holden
6 Crush Terrace
P: (08) 8541 2900 Fax: (08) 8541 3325

WHYALLA
McLeod's Whyalla Motor Company
64 Essington Lewis Avenue
P: (08) 8645 7388 Fax: (08) 8645 5512

YANKALILLA
Martin Motors Pty Ltd
Main Street
P: (08) 8558 2052 Fax: (08) 8558 2911

YORKETOWN
Southway Holden
7 Minalaton Road
P: (08) 8852 1322 Fax: (08) 8852 1271

W.A. Metropolitan

CANNINGTON
Brian Gardner Holden
1308~1324 Albany Hwy
P: (08) 9451 2333 Fax: (08) 9458 9144

FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456

GOSNELLS
Gibbons Holden
2325 Albany Highway
P: (08) 9398 2211 Fax: (08) 9398 5683

AUSTRALIAN HOLDEN DEALERS cont.

MANDURAH
Mandurah Holden
283 Pinjarra Rd
P: (08) 9535 8777 Fax: (08) 9535 8822

MELVILLE
Melville Holden
532~540 Canning Highway
P: (08) 9333 5333 Fax: (08) 9333 5300

MIDLAND
Goldy Holden
161 Great Eastern Highway
P: (08) 9274 3411 Fax: (08) 9274 6042

MORLEY
Metro Motors Holden
212 Walter Road West
P: (08) 9449 3522 Fax: (08) 9449 3596

NAVAL BASE
Shacks Cockburn
15 Rockingham Road
P: (08) 9410 1433 Fax: (08) 9410 2331

OSBORNE PARK
North City Holden
Cnr Scarborough Beach Rd & Harborne St
P: (08) 9273 2222 Fax: (08) 9273 2220

PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630

VICTORIA PARK
Youngs Holden
529 Albany Highway
P: (08) 9449 9449 Fax: (08) 9449 9494

WANNEROO
Phoenix Holden
5 Berriman Drive
P: (08) 9409 9200 Fax: (08) 9309 2140

W.A. Country

ALBANY
Mark Loveridge Holden
92~98 Earl Street
P: (08) 9841 2355 Fax: (08) 9841 8623

BRIDGETOWN
Kordics Bridgetown
Hampton Street
P: (08) 9761 1377 Fax: (08) 9761 2151

BROOKTON
Coote Motors
Robinson Road
P: (08) 9642 1108 Fax: (08) 9642 1003

BROOME
Norwest Holden
McPherson Street
P: (08) 9192 1277 Fax: (08) 9192 2230

BUNBURY
Bunbury Holden
3 Sandridge Road
P: (08) 9791 3899 Fax: (08) 9791 2990

BUSSELTON
Fennessy's
4~8 Bussel Hwy
P: (08) 9752 1577 Fax: (08) 9752 4080

CARNAMAH
T & H Walton Stores Pty Ltd
Robertson Street
P: (08) 9951 1130 Fax: (08) 9951 1082

CARNARVON
North West Autos
175 Robinson Street
P: (08) 9941 1159 Fax: (08) 9941 1363

COLLIE
Station Motors
102 Throssell Street
P: (08) 9734 1855 Fax: (08) 9734 1913

CORRIGIN
Farmpower
Kunjin Street
P:(08) 9063 2303 Fax: (08) 9063 2445

CRANBROOK
Cranbrook Motors
11~13 Gathorne Street
P: (08) 9826 1014 Fax: (08) 9826 1097

DALWALLINU
Reid & Inglis
Johnson Street
P: (08) 9661 1120 Fax: (08) 9661 1243

DERBY
Colac Service Station
Lot 84, Loch Street
P: (08) 9191 1429 Fax: (08) 9191 2133

ESPERANCE
Dempster Holden
Norseman Road
P: (08) 9071 1155 Fax: (08) 9071 3799

AUSTRALIAN HOLDEN DEALERS cont.

GERALDTON
Young Motors
Cathedral Avenue
P: (08) 9921 1088 Fax: (08) 9964 1157

GNOWANGERUP
G.S. Hendry & Co Pty Ltd
Yougenup Street
P: (08) 9827 1030 Fax: (08) 9827 1460

HARVEY
Stockman Holden
111 Uduc Road
P: (08) 9729 3333 Fax: (08) 9729 3221

KALGOORLIE
Golden City Holden
114 Boulder Road
P: (08) 9021 1699 Fax: (08) 9021 5737

KARRATHA
Moxham Motors
Lot 4551 Balmoral Road
P: (08) 9144 1225 Fax: (08) 9144 1258

KATANNING
Edwards Holden
159 Clive Street
P: (08) 9821 2388 Fax: (08) 9821 2429

KELLERBERRIN
Dowding Motors
1 Mitchell Street
P: (08) 9045 4141 Fax: (08) 9045 4466

KOJONUP
Harris' Garage
Albany Highway
P: (08) 9831 1122 Fax (08) 9831 1043

KULIN
Farmpower
High Street
P: (08) 9880 1266 Fax: (08) 9808 1281

KUNUNURRA
Elgee Holden
231 Bloodwood Drive
P: (08) 9168 2236 Fax: (08) 9169 1124

MANJIMUP
Manjimup Automotive Services
Pritchard Street
P: (08) 9771 1388 Fax: (08) 9777 1214

MERREDIN
Carson's of Merredin
112 Barrack Street
P: (08) 9041 1444 Fax: (08) 9041 1765

MOORA
Frank Lewis Holden
Gardiner Street
P: (08) 9651 1408 Fax: (08) 9651 1724

NAREMBEEN
Aquip Holden
20 Churchill Avenue
P: (08) 9064 7214 Fax: (08) 9064 7065

NARROGIN
Marley White & Co
Federal Street
P: (08) 9881 4777 Fax: (08) 9881 4707

NEWMAN
Cockburn Corefleet
Newman Drive
P: (08) 9175 1421

NORTHAM
Withnell Motors
58 Fitzgerald Street
P: (08) 9622 1188 Fax: (08) 9622 3664

PORT HEDLAND
15 Anderson Street
Moxham Motors
P:(08) 9173 3660 Fax: (08) 9144 1258

QUAIRADING
Farmpower
York Road
P: (08) 9645 1103 Fax: (08) 9645 1310

TOM PRICE
Farnor Motors Pty. Ltd.
43 Booneroo Road
P: (08) 9189 1400

WAGIN
Marley White & Co
63 Tudor Street
P: (08) 9861 1055 Fax: (08) 9861 1657

WONGAN HILLS
Agro Machinery Pty Ltd
10 Wongan Road
P: (08) 9671 1311 Fax: (08) 9671 1505

WYALKATCHEM
Agro Machinery
Railway Terrace
P: (08) 9681 1088 Fax: (08) 9681 1082

CHAPTER 10

Tow and Load

Page

10-2 Loading the car
10-3 Superlift shock absorbers
10-4 Towing
10-5 Towing equipment
10-6 Towing precautions
10-7 Kerb weight

LOADING THE CAR

Overloading is a safety hazard and could also shorten the life of your car. The recommended carrying capacity of your car is:

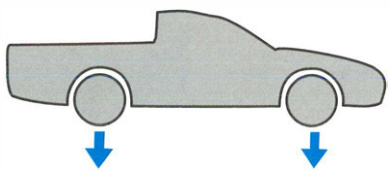
"SS" ute = **570 kg** total load (including the weight of the passengers)

all other utes = **720kg** total load (including the weight of passengers).

The above load carrying capacity is dependant on the weight being distributed evenly. You cannot carry the maximum amount if most of the weight is in one place.

If unsure, the car should be weighed at a weigh bridge, taking care that the MAXIMUM FRONT and REAR AXLE LOADS are not exceeded.

Maximum front and rear axle loads



1,100 kg = "SS" ute only

1,260 kg = all other utes

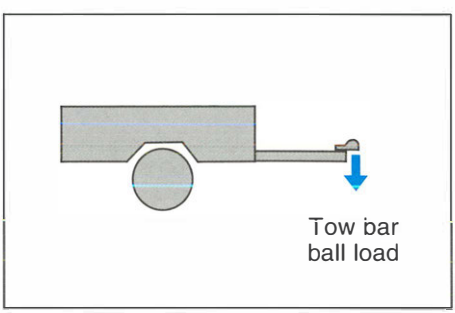
1,005 kg for all utes

Tow bar ball load

The "tow bar ball load" is the weight on the towing vehicle.

Ideally, the ball load should be 10% of the packed trailer/caravan weight. This can be adjusted by correctly packing the contents of the trailer/caravan. If the ball load is too light or too heavy, the steering and handling of the car will be affected.

The load on the tow bar ball should be included as luggage weight, when working out the load your car is carrying.



"ADD-ON" EQUIPMENT

Front of car

Owners intending to fit bull bars etc. should first check with their Holden Dealer. Depending on the weight of the equipment, it may be necessary to fit heavier duty springs and struts to help avoid potential damage to the front underside of the car when driving on rough road conditions.

Fitting driving lights, insect screens

When fitting these accessories be careful not to restrict air flow through the condenser and radiator, otherwise engine overheating and/or poor air conditioning performance may result.

Fitting bull bars

Holden only recommends use of the Holden approved bull bar, available from your Holden Dealer, as it has been compatibility tested with your vehicle's design, including the Holden air bag.

Fitting other types of bull bars may affect air bag performance and engine cooling.

Bull bars should not be fitted to vehicles operating in suburban areas, as they may increase the risk of injury to a pedestrian in the event of a collision. Bull bars are only recommended for country/outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

Mudflaps

It is strongly recommended to have mud flaps fitted if the car is driven extensively on unsealed roads.

Superlift shock absorbers

Superlift shock absorbers should not be fitted to utes, as these are fitted with a brake load sensing valve. The superlift shock absorbers would lift up the ute, thereby upsetting the brake load sensing valve which, in turn, reduces brake effectiveness.

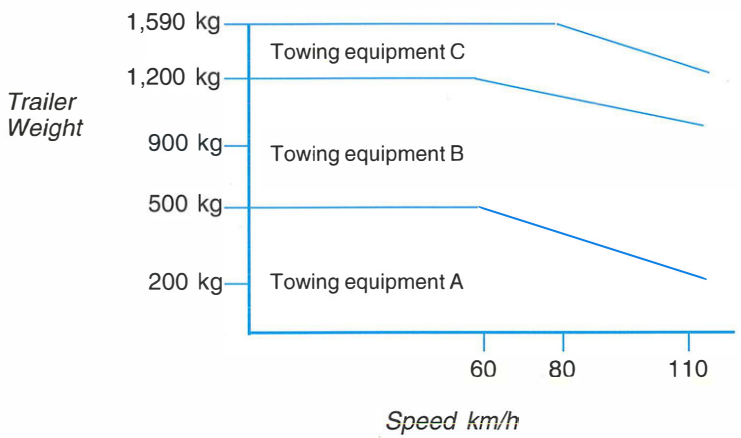
TOWING

Your car is designed primarily as a passenger car, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment is fitted. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Your car will fall into either category A, B or C depending on travelling speed and trailer/caravan weight. Then refer to Table 2 to determine which equipment is specified as essential and which equipment is preferable to your needs.

Never exceed the loads given for the particular towing equipment fitted to your car.

Table 1



CAUTION: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the car arising from the use of such equipment. The use of such equipment may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your Holden vehicle. It is inadvisable to mix and match different brands of towing equipment, as equipment is usually designed as an integrated package.

Tow bar ball load (see page 10-3 for explanation) must not exceed 120kg for category A and B and must not exceed 160 kg for category C or 210kg even if a Load Equalizer Hitch (required when ball load exceeds 75kg) is used.

TOWING EQUIPMENT

Table 2

A	Essential	Holden 1,200kg rating tow bar
	Essential	Holden trailer wiring harness
B	Essential	Holden 1,200kg rating tow bar
	Essential	Holden trailer wiring harness
	Essential	Load equalizer hitch when towball loads are in excess of 75 kg (not available from Holden)
	Essential	Trailer brakes, by State Law
	Preferable	Automatic transmission
	Preferable	Holden steering oil cooler
C	Essential	Holden 1,590kg rating tow bar
	Essential	Holden trailer wiring harness
	Essential	Heavy Duty Tow Bar Equalizer Hitch complying with SAE J684E or F Class2
	Essential	Trailer Brakes - electric or hydraulic, required by State Law
	Preferable	Automatic transmission
	Essential	Holden steering oil cooler

TOWING PRECAUTIONS

- Your car will handle differently when towing. It's a good idea to make a couple of short distance trips with the caravan or trailer before you set off on the big one.
- Have your car correctly maintained and serviced.
- Have your caravan or trailer maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- You should have an extended-arm mirror on both sides of your car.
- Headlights may need re-aiming after the loaded caravan has been hitched, particularly if a load equalizer hitch is not used.
- Use a lower gear, rather than your brakes when descending steep hills.
- If your caravan or trailer moves off the road behind you, allow the left wheels of your car to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.
- *Automatic transmission:* To stop the transmission constantly changing between 3rd and 4th gear, it is recommended that the T-bar be in Drive with the "Power" mode selected when towing. "Economy" mode may be selected under ideal conditions, i.e. driving at a constant speed on flat roads, with a small trailer or caravan. Some drivers may prefer to select "3" position in "Power" or "Economy" modes when towing.
- When towing, your tyres should be inflated to the maximum recommended pressure. Refer to the tyre placard under the bonnet, on the radiator support panel.
- Do not use axle-mounted hitches. They can cause damage to the axle housing, wheel bearings, wheels and tyres.
- Trailer brakes are required on trailers weighing over 500kg when loaded. Some States require trailer brakes on loads less than 500kg.
- It is permissible to tap into the rear brake system with a signal generating unit using not more than 0.21cc of fluid displacement during the operation of the brakes. It must not be fitted to the front brake system.
- The brakes on the trailer or caravan must be designed to cope with the braking requirements of that trailer or caravan under all towing conditions, without adversely affecting the brakes on the car.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.

TOWING

Running-in when towing

It is recommended that you drive your new car for at least 1,500km before towing. If you must tow before this do not exceed 80km/h. The same applies if you have a new or reconditioned engine, transmission or rear axle.

Car maintenance

More frequent car maintenance is required when using your car to pull a trailer or caravan, refer page 12-3. For example, if an automatic transmission is fitted, the transmission fluid should be changed every 12 months or 20,000km.

Kerb weight (kg)

Some States specify that the load being towed must not exceed the weight of the car. The kerb weights provided below, are for a standard unloaded car, without options but with a full tank of fuel.

	3800 (V6) engine	5000 Injection (V8) engine
SS utes		1,515 kg
Non SS utes	1,359 kg	1,443 kg

CHAPTER 11

Cleaning

Page

INTERIOR CLEANING

11-2 Upholstery
11-2 Vinyl fabrics
11-3 Cloth fabrics
11-3 Carpet
11-3 Seat belts
11-3 Interior glass

EXTERIOR CLEANING

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11-5 Grease, oil & tar spots
11-6 Polishing
11-6 Paint inspection
11-6 Wheels and tyres
11-7 Exterior glass
11-8 Cleaning products

INTERIOR CLEANING

CAUTION: Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Be sure the car is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

Care and cleaning of upholstery

Dust and dirt which accumulate on upholstery should be removed every few weeks - more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent on the upholstery.

Removed the stains as soon as possible after they have been made. If they are allowed to remain for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

Vinyl

Vinyl fabrics are used for seating, headlinings and auxiliary trimming. The surface should be wiped over with a dry cloth during the regular cleaning of the car.

Should dirt accumulate and become embedded in the material pattern:

1. Use luke warm water and soap, or Holden Velour Fabric and Vinyl Cleaner and work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove embedded dirt and stubborn stains.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

INTERIOR CLEANING

Cloth

- Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- For normal soiling, sponge lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

Carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Seat belts

Clean seat belts with a mild, non-abrasive soap and luke warm water. After washing, be sure to thoroughly sponge the washing solution out of the belts.

CAUTION: Do not bleach or dye seat belts as this may severely weaken them.

Interior glass

The interior glass area of the car should be cleaned using Holden Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

Never use abrasive cleaners on any car glass, as they can cause scratches.

WASHING

CAUTION: Care should be taken when moving the car after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

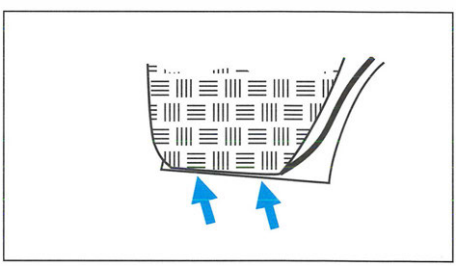
Before washing the paint check that the door drain holes and rocker sill vents are not blocked. The underbody should also be cleaned to remove deposits of mud and corrosive products.

Underbody cleaning

The effects of salt etc. from road surfaces can cause rust under the car. The underbody should be hosed with plain water whenever the car is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody be inspected and washed at least once each year, preferably after a winter's exposure. Particular attention should be given to cleaning out the underbody where dirt etc. may have collected.

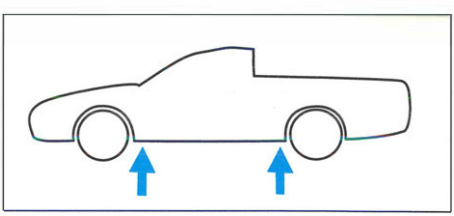
Door drain holes

It is important that the drain holes at the bottom of the door panels are checked to make sure that they are free of dirt which could trap water inside the panels. Clogged drain holes can be cleaned with a small screwdriver and these drain holes are angled back towards the rear of the car.



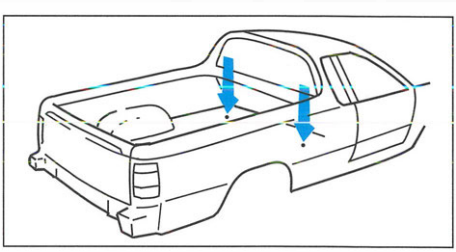
Rocker sill vents

Vents should be regularly checked to see that they are clear of blockage, using a blunt instrument. These vents are formed as cutouts in the sheet metal along the bottom edge of the rocker sill.



Floor drain holes

Two drain holes are located on the tonneau floor, behind the cabin. Regular cleaning with a hose or similar will ensure that the holes remain clear, so that water can drain away from the loading area.



EXTERIOR CLEANING

Washing paint

The paint will stay bright and new looking for years with little or no polishing, provided it is given a reasonable amount of regular washing to keep off road grime.

Washing not only removes dirt and road grime, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, bird droppings, insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint. These should be removed without delay, using an effective removal agent.

Regular washing

If the car is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois or clean sponges. Hose the car first to remove as much of the grit and grime as possible before swabbing the surface.

Avoid washing the car under bright sunlight on hot days, as this will give a streaky paint finish, caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the car after washing.

Holden Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean.

Do not use hot water, strong soap or chemical detergents. Any cleaner should be flushed promptly from the surface and not allowed to dry on the finish.

Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the foreign matter has been removed.

Warnings

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to automotive paint.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the car is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

EXTERIOR CLEANING, WHEELS & TYRES

Insect spots

Insect spots on the paint can be washed off with a solution of 1 litre of water and 110 grams of dissolved baking soda (Bicarbonate of Soda). Flush the washed parts with clean water.

To prevent damage of the paint surface, insect spots should always be removed as soon as possible.

Polishing

You may wish to polish your car to provide maximum protection against road dirt and industrial fall out etc. Polish may be also be required to remove foreign matter not removed when washing, which may build up over a period of time.

DO NOT ATTEMPT TO APPLY A POLISH WITHOUT FIRST WASHING TO REMOVE LOOSE GRIT, SURFACE DIRT, DUST OR GREASE ETC.

Painted plastic bumpers or body side mouldings may be cleaned and polished according to the instructions given above for the paint.

Paint inspection

Regular inspection of the car should be made for scratch marks, cracks or damaged areas, all of which could develop rust. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area, particularly in tropical or coastal areas, where the moist, or salt-laden air accelerates rusting. The paint finish of the car gives a very high degree of protection against the weather, but it should be realised that wear and deterioration occur when the car is exposed to elements for prolonged periods. The car therefore should be garaged whenever possible.

To prevent damage of the paint surface, foreign matter should always be removed as soon as possible.

Tyres

Sponging with cold water is all that is necessary for normal cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

New tyre look can be restored using Holden Tyre and Bumper Shine.

Alloy wheels

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. Holden Wheel Cleaner can be used for cleaning alloy wheels. Do not use abrasive cleaners on highly polished alloy wheels.

EXTERIOR GLASS CLEANING

Glass cleaning - general

Special care should be taken to avoid scratching the glass. If it is cleaned at the same time as the rest of the car, there is a possibility that particles of grit will cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

Windscreen

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced.

Abrasive cleaners should never be used to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft, lint free cloth or chamois.

It is recommended that Holden Optikleen be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen will cause smearing when the wipers are switched on, when the dirt is transferred onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are used. The blades can be cleaned by lifting them off the windscreen and cleaning with Holden Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades be frozen to the windscreen, they must be lifted off and freed by hand before switching on the wipers.

Ventilation system intake

The intake area between the bonnet and windscreen may collect leaves, which will impair air flow into the car.

It is recommended that this area be cleared of debris whenever you wash your car.

CLEANING PRODUCTS

HOLDEN PART NUMBER	SIZE	DESCRIPTION	USAGE
92141386	500 ml	Polymer glaze polish	Seals in a deep, lustrous, glazed finish. Long life protection from oxidation, salt and weather damage.
92141387	500 ml	Easy gloss polish	Contains silicones and hard working waxes for extra shine.
92141388	500 ml	Wash on shine	Contains polymer protectants to shine. Adds a protective film to paintwork.
92141389	500 ml	Foaming car wash	Leaves a no-streak finish.
92141390	400 g	Velour fabric and vinyl cleaner	Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets.
92141391	350g	Tyre and bumper shine	Restores tyres and bumpers to as new finish.
92141182	350 g	Glass cleaner	Cleans all glass surfaces.
92141392		Chamois	
92140005	500 ml	Optikleen	Windscreen washer solvent.
92140004	5 ml	Optikleen sachet	Windscreen washer solvent - 1 sachet per washer bottle refill
92141393	125 g	Car freshener/deodorant	Removes tobacco smells and other odours.
92141394	300 g	Bug, tar and spot remover	Quickly dissolves and removes tar, grease, oil, bugs and other stubborn stains from your car's exterior.
92141395	750 ml	Wheel cleaner	Wheel cleaner, including alloy wheels
92141396	400 g	Degreaser	Removes oil and grease from engines.

Notes

CHAPTER 12

Servicing

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12-3 Extreme operating conditions
12-4 Extreme operating coupons
12-5 Maintenance schedule
12-8 Service costs
12-11 Maintenance coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.
The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at Holden Dealers.
Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

1,500 km - 1 month inspection
10,000 km - 6 months
20,000 km - 1 year
30,000 km - 1½ years
40,000 km - 2 years
50,000 km - 2½ years
60,000 km - 3 years
70,000 km - 3½ years
80,000 km - 4 years
90,000 km - 4½ years
100,000 km - 5 years
110,000 km - 5½ years
120,000 km - 6 years
130,000 km - 6½ years
140,000 km - 7 years
150,000 km - 7½ years
160,000 km - 8 years
170,000 km - 8½ years
180,000 km - 9 years
190,000 km - 9½ years
200,000 km - 10 years

The one month (1,500 kilometres) service will be performed "free of charge" by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary Letter of Introduction on request.

The services shown in this schedule between 20,000 km and 200,000 km are to be performed after 200,000 km at the same intervals.
NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carried out by an Authorised Holden Dealer or service Dealer may void your new Vehicle Warranty if the work is not carried out in accordance with Holden's specifications. It is strongly recommended that you read the "New Vehicle Warranty" in Chapter 9 so that you are aware of your entitlements.

Service coupons are provided further on in this chapter. When each service is performed the coupon is removed so that the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should check that the service has been validated, by the Dealer stamping and signing the coupon stub. This is important as it will not only assist in the determination of Warranty Claims, but will enhance the value of the vehicle when selling.

EXTREME OPERATING CONDITIONS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 km under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change automatic transmission fluid and strainer @ 20,000km				D	E	F
Inspect front suspension and steering for leaks, wear or damage @ 5,000km	A	B				
Replace engine oil filter @ 5,000km or 3 months (whichever comes first)	A					
Change engine oil @ 5,000km or 3 months (whichever comes first)	A		C		E	F
Replace air cleaner element @ 20,000km	A					
Inspect and clean park brake linings @ 20,000km	A	B				
Change differential oil @ 20,000km					E	F

A = Dust, dirt, loose road material.

B = Muddy and wet areas.

C = Cold weather (below 5°C) and when most trips are less than 5km.

D = Stop-start driving, excessive idling or low speed operation as experienced in inner city driving e.g. taxi, door to door delivery.

E = Caravan or trailer towing.

F = Extended heavy load high speed operation in temperatures above 35°C.

EXTREME OPERATING CONDITIONS

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date ..... km .....

Items performed: .....

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Servicing

Dealer .....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date ..... km .....

Items performed: .....

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Servicing

Dealer .....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

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Servicing

Dealer .....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date ..... km .....

Items performed: .....

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Servicing

Dealer .....

Use odometer reading or years, whichever occurs first	x 1,000 km	1.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
	or years	1/12	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Under hood																						
Change engine oil and engine oil filter.		-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check fluid levels: brake, clutch (if fitted), power steering, automatic transmission, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).		X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check battery electrolyte and fluid level, if applicable.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
(V6) Engine accessory drive belt. Check length indicator and belt condition.		-	-	-	-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-
(V8) Check condition and tension of all engine drive belts using gauge.		-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.		X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drain and refill cooling system with recommended inhibitor. Clean outside of the radiator and A/C condensor.		Change every 2.5 years (regardless of kms)																				
Replace engine air cleaner element.		-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Vacuum check for PCV valve operation.		-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Replace spark plugs.		-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
(V8) Check ignition timing.		-	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-
Check carbon canister for leaks or restrictions.		X	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-

Use odometer reading or years, whichever occurs first	x 1,000 km	1.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
	or years	1/12	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Under car

Replace fuel filter.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Check rear axle oil level.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Check rear axle and auto trans for leaks.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Change auto trans fluid and strainer.	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	X	-	-	-	-
Manual transmission. Check oil level.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Manual transmission. Check for leaks.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Parking brake - check linings and drums for wear.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Inspect tyres for irregular wear or damage. Check for damaged wheels. Check air pressures.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drain, refill and bleed brake system. Check brake performance when road testing.						Change every 2 years (regardless of kms)															
Drain, refill and bleed clutch system (if fitted). Check clutch performance when road testing.						Change every 2 years (regardless of kms)															
Check all brake and fuel lines and hoses for condition, attachment and routing.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing, leaks, etc. Check condition of all rubber boots and covers.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect exhaust and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes, or loose connections.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Inspect constant velocity joint for damaged or torn boot.	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clean and lubricate automatic transmission shift linkage.	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-
Clean out air conditioning drain tubes.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Car interior																					
Check park brake operation.	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.	-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Car exterior																					
Clear plenum chamber water deflector screens of leaves, etc.	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check operation of all exterior lights.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lubricate hood catch, hinges, check links and lock cylinders.	-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Check transmitter range of security system.	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Road test																					
Check braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

SERVICE CHARGES

1,500 km (1 month)
free

10,000 km (6 months)
Labour: 0.5 hours
Parts: engine oil filter
Lubricants: engine oil

20,000 km (1 year)
Labour: 0.8 hours
add 0.1 hours V8 engine
Parts: engine oil filter
Lubricants: engine oil

30,000 km (1½ years)
Labour: 0.6 hours
Parts: engine oil filter
Lubricants: engine oil

40,000 km (2 years)
Labour: 1.4 hours
add 0.1 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter
Lubricants: engine oil

50,000 km (2½ years)
Labour: 0.7 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

60,000 km (3 years)
Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

70,000 km (3½ years)
Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

80,000 km (4 years)
Labour: 1.4 hours
add 0.3 for auto
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter; auto trans strainer and gasket
Lubricants: engine oil; auto trans fluid

90,000 km (4½ years)
Labour: 0.7 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

100,000 km (5 years)
Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

110,000 km (5½ years)
Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

120,000 km (6 years)
Labour: 1.5 hours
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter
Lubricants: engine oil

130,000 km (6½ years)
Labour: 0.7 hours
0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

140,000 km (7 years)
Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

SERVICE CHARGES

150,000 km (7½ years)
Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

160,000 km (8 years)
Labour: 1.5 hours
add 0.3 for auto
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter; auto trans strainer and gasket
Lubricants: engine oil; auto trans fluid

170,000 km (8½ years)
Labour: 0.7 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

180,000 km (9 years)
Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

190,000 km (9½ years)
Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

200,000 km (10 years)
Labour: 1.5 hours
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter
Lubricants: engine oil

In addition to the times, parts and lubricants listed above, the following operations will be charged for, when required, on a time only basis:

Brake fluid must be changed every 2 years (add charge for brake fluid and 0.4 hours labour)

Clutch fluid (if fitted) must be changed every 2 years (add charge for clutch fluid and 0.2 hours labour)

Engine coolant must be changed every 2½ years (add charge 0.4 hours labour, add engine coolant, add cooling system pellets for 3800 V6 engines only)

SERVICE CHARGES

- The owner will be charged for all lubricants and materials used plus labour at the times recommended on previous page.

- The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.

  Where any deficiencies are noted, such items should be reported to the owner/ operator so that the extra work required can be authorised.

- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your car.

1,500km or 1 month Service Coupon

This coupon should not be removed until the car is presented for service.

Owner's Name
Mr.
Mrs. .....
Miss.
Other.....

Address .....

Town & State ..... Postcode .....

Reg. no. ..... Engine no .....

I.S.O.V.I.N. ..... Model .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

This car has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's signature .....

1,500km or 1 month Service Validation

This car has been thoroughly checked in accordance with the 1,500 km/one month service.

Dealer .....

Service Manager's signature .....

Date .....

Odometer reading .....

This service is provided FREE of charge for the standard vehicle.

Under hood

- ❑ Check fluid levels: engine oil, brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Check carbon canister for leaks or restrictions.

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

Car exterior

- ❑ Check operation of all exterior lights.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

10,000 km or 6 months Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.5 hours labour
- engine oil and engine oil filter

There will also be a charge for additional services as requested:

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Signature ..... Date

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch (if fitted), auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

10,000km or 6 months Service Validation

Servicing Dealer .....

Date of Service ..... Odometer .....

Signed .....

Additional services performed: .....

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20,000km or 1 year Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours labour; add 0.1 hours V8 engine
- engine oil and engine oil filter

There will also be a charge for additional services as requested:

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Signature..... Date .....

Additional services performed: .....

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Servicing Dealer .....

Date of Service ..... Odometer .....

Signed .....

20,000km or 1 year Service Validation

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

Under car cont.

- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

30,000km or 1½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.6 hours labour
- engine oil and engine oil filter

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Additional services performed: .....

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Servicing Dealer .....

Date of Service ..... Odometer .....

Signed .....

30,000km or 1½ years Service Validation

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.

Under car cont.

- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean and lubricate auto trans shift linkage.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

40,000km or 2 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.4 hours labour; add 0.1 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- spark plugs
- fuel filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Replace engine air cleaner element.
- ❑ Vacuum check for PCV valve operation.
- ❑ Replace spark plugs.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.

40,000km or 2 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....
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Under car

- ❑ Replace fuel filter.
- ❑ Check rear axle oil level.
- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check oil level.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Parking brake - check linings and drums for wear.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean out A/C drain tubes.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

50,000km or 2½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ (V8) Check ignition timing.
- ❑ Check carbon canister for leaks or restrictions.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

50,000km or 2½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation,.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

60,000km or 3 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

60,000km or 3 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....
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Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

70,000km or 3½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❒ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❒ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❒ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

70,000km or 3½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....
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Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean and lubricate auto trans shift linkage.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

80,000km or 4 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.4 hours; add 0.3 for auto; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- fuel filter
- if auto trans fitted: add auto trans strainer, gasket and fluid
- spark plugs
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Replace engine air cleaner element.
- ❑ Vacuum check for PCV valve operation.
- ❑ Replace spark plugs.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

80,000km or 4 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....

Additional services performed: .....
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Under car

- ❑ Replace fuel filter.
- ❑ Check rear axle oil level.
- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check oil level.
- ❑ Change auto trans fluid and strainer.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Parking brake - check linings and drums for wear.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean out A/C drain tubes.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

90,000km or 4½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ (V8) Check ignition timing.
- ❑ Check carbon canister for leaks or restrictions.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

90,000km or 4½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

100,000km or 5 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake fluid, **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

100,000km or 5 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO .....
Coolant changed: YES/No .....
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

110,000km or 5½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

110,000km or 5½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....
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Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean and lubricate auto trans shift linkage.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

120,000km or 6 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.5 hours; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- spark plugs
- fuel filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Replace engine air cleaner element.
- ❑ Vacuum check for PCV valve operation.
- ❑ Replace spark plugs.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.

- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.

- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

120,000km or 6 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....

Under car

- ❑ Replace fuel filter.
- ❑ Check rear axle oil level.
- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check oil level.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Parking brake - check linings and drums for wear.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean out A/C drain tubes.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

130,000km or 6½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ (V8) Check ignition timing.
- ❑ Check carbon canister for leaks or restrictions.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

130,000km or 6½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....
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Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

140,000km or 7 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

❒ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

❒ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

❒ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

140,000km or 7 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....

Additional services performed: .....
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Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

150,000km or 7½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

Additional services performed: .....

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150,000km or7½ years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Coolant changed: YES/No

Date of Service ..... Odometer .....

Signed .....

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean and lubricate auto trans shift linkage.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

160,000km or 8 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.5 hours; add 0.3 for auto; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- fuel filter
- if auto trans fitted: auto trans strainer, gasket and fluid
- spark plugs
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Replace engine air cleaner element.
- ❑ Vacuum check for PCV valve operation.
- ❑ Replace spark plugs.

- ❑ Brake fluid, **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.

- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.

- ❑ Engine Coolant, **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

160,000km or8 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Coolant changed: YES/No

Date of Service ..... Odometer .....

Signed .....

Additional services performed: .....

Under car

- ❑ Replace fuel filter.
- ❑ Check rear axle oil level.
- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check oil level.
- ❑ Change auto trans fluid and strainer.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Parking brake - check linings and drums for wear.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean out A/C drain tubes.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

170,000km or 8½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ (V8) Check ignition timing.
- ❑ Check carbon canister for leaks or restrictions.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

170,000km or 8 ½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....

Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

180,000km or 9 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

180,000km or 9 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....
Additional services performed: .....
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Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

190,000km or 9½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.
- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.
- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

190,000km or 9½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Coolant changed: YES/No
Date of Service ..... Odometer .....
Signed .....

Additional services performed: .....
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Under car

- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean and lubricate auto trans shift linkage.

Car interior

- ❑ Check park brake operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

200,000km or 10 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.5 hours; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- spark plugs
- fuel filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

There will also be a charge for additional services as requested:

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Signature..... Date .....

Additional services performed: .....

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Servicing Dealer .....

Brake fluid changed: YES/NO

Coolant changed: YES/No

Date of Service ..... Odometer .....

Signed .....

200,000km or 10 years Service Validation

Under hood

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, clutch (if fitted), power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ❑ Check battery electrolyte and fluid level.
- ❑ (V8) Check condition and tension of all engine drive belts using gauge.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Replace engine air cleaner element.
- ❑ Vacuum check for PCV valve operation.
- ❑ Replace spark plugs.

- ❑ Brake fluid. **Change at 2 years (regardless of kms)**
  Drain, refill and bleed brake system. Check brake performance when road testing.

- ❑ Clutch fluid (if fitted). **Change at 2 years (regardless of kms)**
  Drain, refill and bleed clutch system. Check clutch performance when road testing.

- ❑ Engine Coolant. **Change at 2.5 years (regardless of kms)**
  Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

Under car

- ❑ Replace fuel filter.
- ❑ Check rear axle oil level.
- ❑ Check rear axle and auto trans for leaks.
- ❑ Manual transmission. Check oil level.
- ❑ Manual transmission. Check for leaks.
- ❑ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ❑ Parking brake - check linings and drums for wear.
- ❑ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ❑ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ❑ Inspect CV joint for damaged or torn boot.
- ❑ Clean out A/C drain tubes.

Car interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ❑ Clear plenum chamber water deflector screens of leaves, etc.
- ❑ Check operation of all exterior lights.
- ❑ Lubricate hood catch, hinges, check links and all lock cylinders.
- ❑ Check transmitter range of security system.

Road test

- ❑ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

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